JACKSONVILLE, FLORIDA

PLANS
FOR

THE AFTER-DREDGE SURVEY OF JACKSONVILLE HARBOR

(PHASE II)
40-FOOT PROJECT
CUT-3 THROUGH CUT-50

PREPARED BY:

ARC SURVEYING & MAPPING, INC.

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

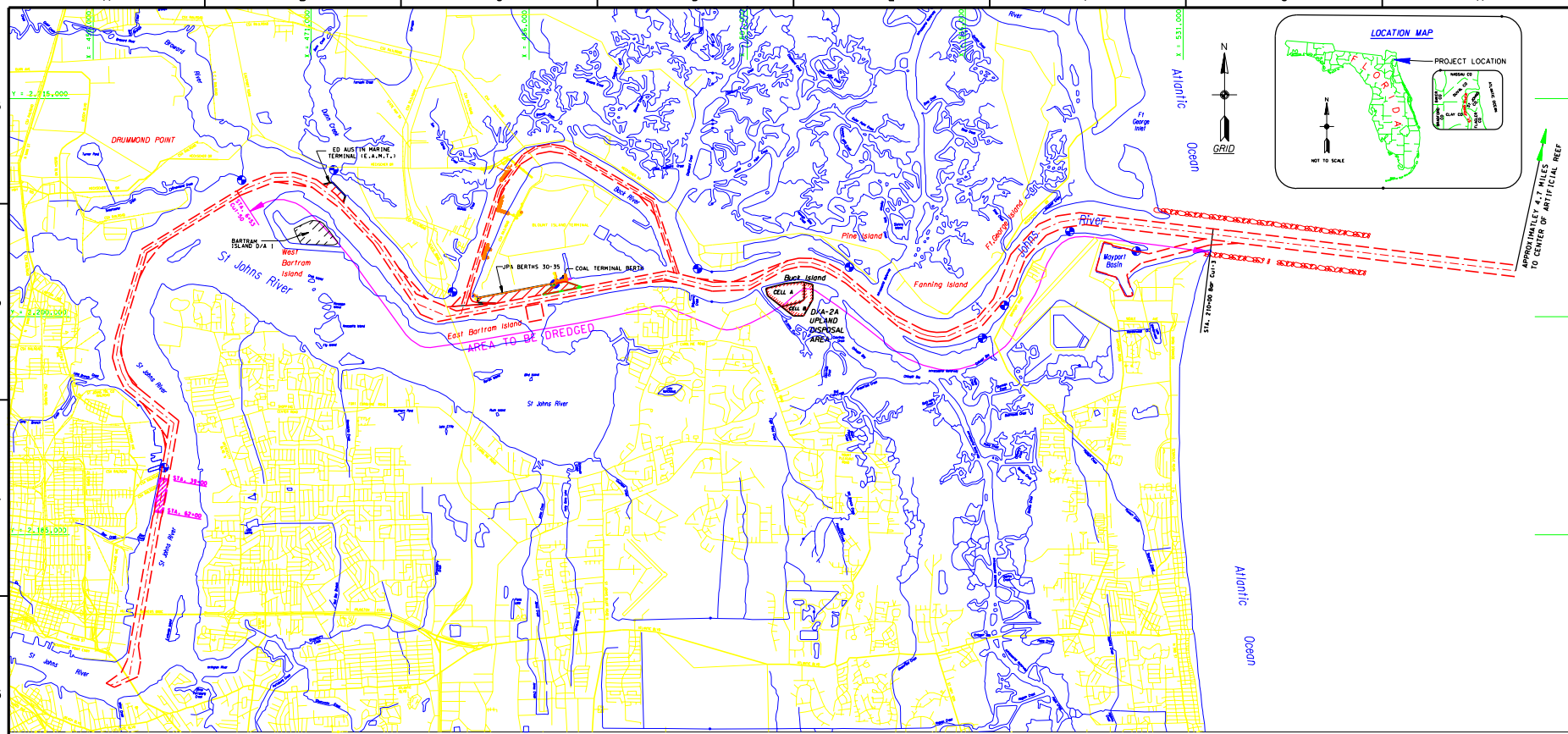
2003

CERTIFICATION:

DATE:

DALE V. TRAYLOR
FLORIDA REGISTERED CERTIFICATE NO. 4266
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

D. O. FILE NO. 1-38,417



VICINITY MAP

LEGEND/ABBREVIATIONS

(1)	ACCEPTANCE SECTION
	PROJECT CHANNEL
	UPLAND DISPOSAL AREA (D/A)
	BENCHMARK
	CONTROL MONUMENT
AS	ACCEPTANCE SECTION
MLW	MEAN LOW WATER
RGE.	RANGE
STA.	STATION

NAVAID LEGEND	
	NO WAKE SIGN
	MANATEE CAUTION SIGN
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
C	CAN BUOY
N	NUN BUOY
	TIDE STAFF

GRAPHIC SCALE

3000 0 3000 6000

HORIZONTAL SCALE IN FEET
1"= 3000'

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5520 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32244
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EMAIL: ARCSURVEYOR.COM
LICENSED BUSINESS No. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: GET
Ckd by: PRS

Dated: SEPTEMBER 2003
D.O. FILE NO. 1-38,417

File name: C245A-1-02A0.DGN
Reference files: C245A-BORE-A0.DGN
C245A-CHNLSDN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER- DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
CHANNEL LOCATION AND VICINITY MAPS

DRAWING NO.
1/2

SHEET 2 OF 37

SURVEY DATE TABULATION

ACCEPTANCE SECTION	SURVEY VESSEL	DATE OF SURVEY	AREA	LOCATION OF TIDE STAFF	BENCHMARK
1	RED WITCH	6/7/03	CUT-3	NAVY FUEL DOCK	FUEL
2	RED WITCH	6/7/03	CUT-3	NAVY FUEL DOCK	FUEL
1-2 CELL-A	GREY WITCH	3/24/03	CUT-3	NAVY FUEL DOCK	FUEL
3	GREY WITCH	5/30/03	CUT-3	NAVY FUEL DOCK	FUEL
4	GREY WITCH	5/30/03	CUT-3 CUT-4	NAVY FUEL DOCK	FUEL
5	GREY WITCH	5/30/03	CUT-4 CUT-5 CUT-6	NAVY FUEL DOCK COAST GUARD	FUEL STJO 307
6	GREY WITCH	4/18/03	CUT-6 CUT-7 CUT-8	COAST GUARD OUTFALL PIPE	STJO 307 Z 324
7	GREY WITCH	5/29/03	CUT-7 CUT-8 CUT-9	COAST GUARD OUTFALL PIPE	STJO 307 Z 324
8	GREY WITCH	8/26/03	CUT-10 CUT-11 CUT-12 CUT-13	OUTFALL PIPE	Z 324
9A	GREY WITCH	8/27/03	CUT-13 CUT14/15	PIRATES COVE	STJO 334
9B	GREY WITCH	7/30/03	CUT-19 CUT-39	WYSS DOCK	WYSS
9C	GREY WITCH	6/16/03	CUT-40	WYSS DOCK	WYSS
10A EAST	GREY WITCH	6/16/03	CUT14/15 CUT-16	PIRATES COVE	STJO 334
10A WEST	GREY WITCH	11/25/02	CUT-16 CUT-17 CUT-18 CUT-19	PIRATES COVE	
10B	GREY WITCH	6/26/03	CUT-39 CUT-40	WYSS DOCK	WYSS
11	GREY WITCH	12/13/02	CUT-40	WYSS DOCK	WYSS
12	RED WITCH RED WITCH	12/27/02 12/30/02	CUT-41 CUT-42	WYSS DOCK GANTRY EAST RESET	WYSS GANTRY EAST RESET
13A	GREY WITCH	6/14/03	CUT-42	GANTRY EAST RESET	GANTRY EAST RESET
13B	GREY WITCH	6/16/03	CUT-42	DAMES POINT	DAMES POINT 1
14	GREY WITCH	6/9/03	CUT-42	GANTRY EAST RESET	GANTRY EAST RESET
15	GREY WITCH	6/7/03	CUT-42 CUT-43	GANTRY EAST RESET DAMES POINT	GANTRY EAST RESET DAMES POINT 1
16	GREY WITCH	6/7/03	CUT-43 CUT-44	DAMES POINT	DAMES POINT 1
17	GREY WITCH	6/6/03	CUT-44	DAMES POINT	DAMES POINT 1
18	RED WITCH	7/25/02	CUT-44 CUT-45	DUNNS CREEK	STJO 232
19	GREY WITCH	4/21/03	CUT-46	DUNNS CREEK	STJO 232
20	GREY WITCH	4/21/03 4/23/03	CUT-47 CUT-48	DUNNS CREEK	STJO 232
21	GREY WITCH	4/23/03	CUT-49	B.P. OIL DOCK	STJO 83
22	NOT DREDGED	NA			
23	GREY WITCH	7/25/03 7/26/03	CUT-42	GANTRY EAST RESET	GANTRY EAST RESET
24A	GREY WITCH	7/18/03	CUT-42	GANTRY EAST RESET	GANTRY EAST RESET
24B	GREY WITCH	6/24/03	CUT-46	DUNNS CREEK	STJO 232
TERMINAL CHANNEL	GREY WITCH	4/2/03	TERMINAL CUT	ACOE DEPOT	STJO 204

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5220 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: (904) 384-8311
EMAIL: ARCSURVEYOR.COM
LICENSED BUSINESS NO. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: GET
Ckd by: PRG

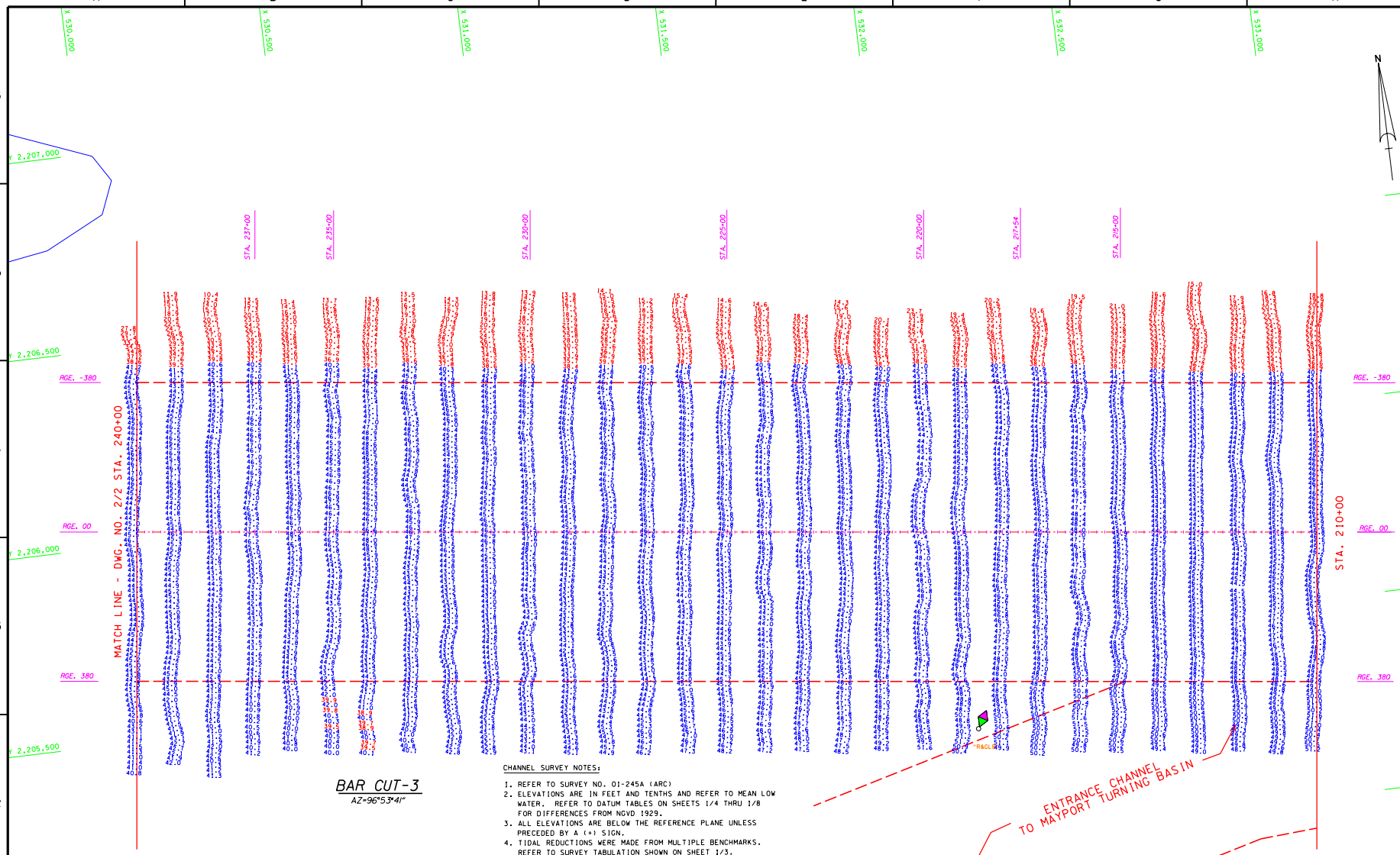
Dated: SEPTEMBER 2003
D.O. FILE NO. 1-38,417

File name: C245A-TSAUD01
Reference files: C245A_BDR2_AU00

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER- DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
SURVEY DATE TABULATION

DRAWING NO.
1/3

SHEET 3 OF 37



CHANNEL SURVEY NOTES:

1. REFER TO SURVEY NO. 01-245A (ARC)
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOW WATER. REFER TO DATUM TABLES ON SHEETS 1/4 THRU 1/8 FOR DIFFERENCES FROM NGVD 1929.
3. ALL ELEVATIONS ARE BELOW THE REFERENCE PLANE UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM MULTIPLE BENCHMARKS. REFER TO SURVEY TABULATION SHOWN ON SHEET 1/3.
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
8. SURVEY WAS PERFORMED USING DIFFERENTIAL GPS FOR POSITIONING AND UTILIZING THE USCG NAVBEACON SYSTEM AS THE REFERENCE SITE. VERTICAL MEASUREMENTS WERE MADE USING A KNUDSEN SOUNDER DEPTH RECORDER WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER.
9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. SEE DRAWING 1/3 FOR SURVEY DATE TABULATION.
11. SURVEY QUALITY CONTROL STANDARDS AND FIELD EQUIPMENT CALIBRATIONS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH EM 1110-2-1003 FOR CLASS 1 HYDROGRAPHIC SURVEYS.
12. REFER TO FIELD BOOK NOS. 2003 01-C-0023 1-6
13. BACKGROUND PLANIMETRICS PROVIDED BY THE USACOE AND WERE NOT FIELD LOCATED BY THIS SURVEY

LEGEND/ABBREVIATIONS

AZ.	= AZIMUTH
DWG.	= DRAWING
P.I.	= POINT OF INTERSECTION
RGE.	= RANGE
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(1)	= DREDGING ACCEPTANCE SECTIONS

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
RED/GRN BUOY (06/03)	532,095	2,205,277
GREEN BUOY-1 (06/03)	532,307	2,204,783
RED BUOY-2 (06/03)	530,392	2,204,842

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5920 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS No. 6487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

Designed by:
Dwn by: CET
Ckd by: PRS

File name: C245A-2.DWG.DGN
Reference files: C245-LNDR-JAX.DGN C245-LNDR-PVD.DGN C245-ALL-PN.DGN C245-ALL-PN-DEL.DGN DRAINAGE.DGN DRAINAGE-BUFFER.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/1

SHEET 4 OF 37

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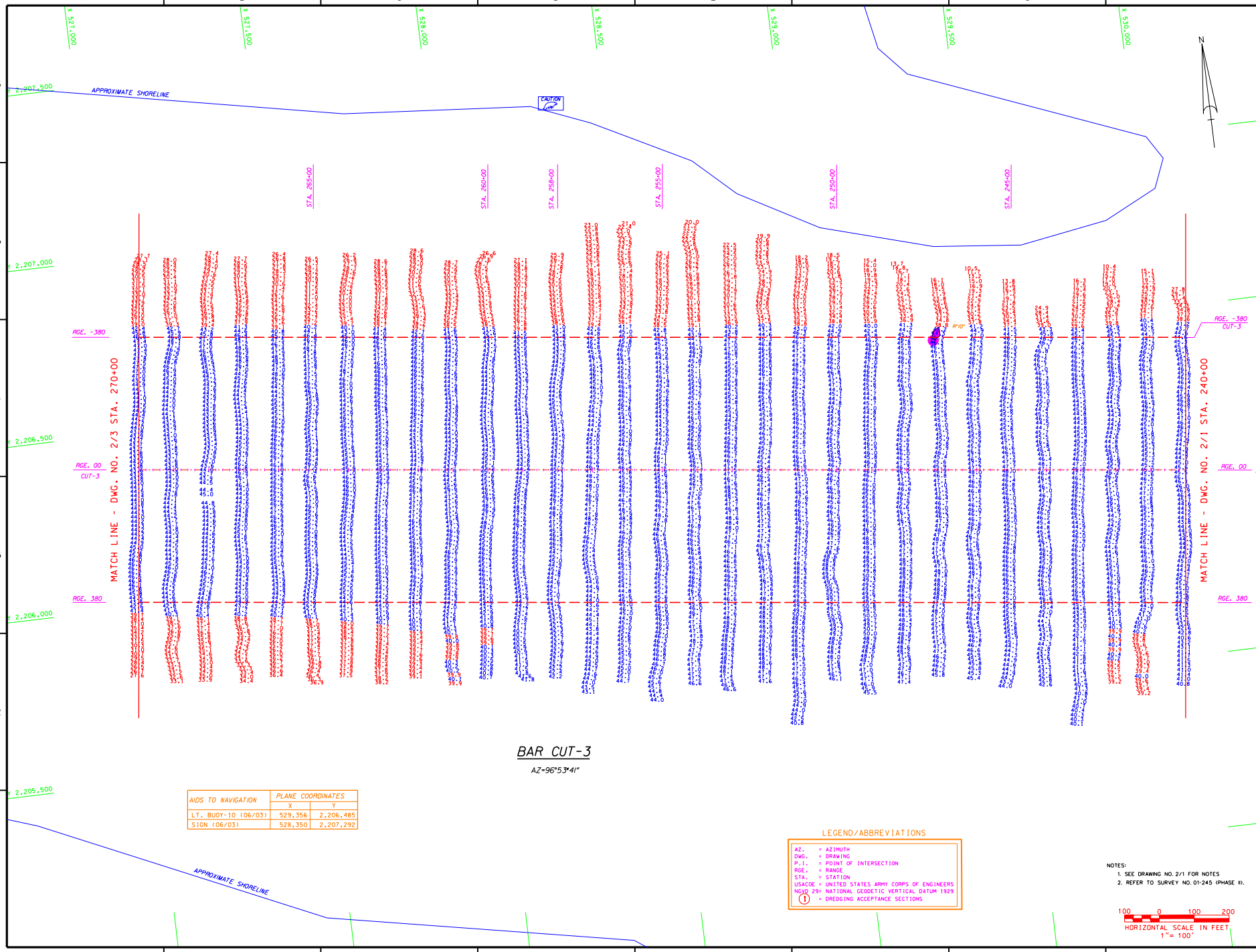

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-10 (06/03)	529,356	2,206,485
SIGN (06/03)	528,350	2,207,292

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NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

US Army Corps of Engineers
Jacksonville District

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No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
8222 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904-384-8311
LICENSED BUSINESS NO. 6487

Inv. No. DACW17-01-0-0002
Dwgs: AS SHOWN
Date: FEBRUARY 22, 2001
Rev. date: OCTOBER 2, 2003
Plot scale: AS SHOWN
Dwgs: SEPTEMBER 2003
D.O.F.ILE NO. 1-38,417

Designed by
Dwn by: DET
Ckd by: PBS
File name: C245A-2-TOPO.DGN
Reference files: C245A_DRF_ALCOA C245A_DRF_BAR C245A_DRF_CUT3 C245A_WL_BOR C245A_WL_CUT3 C245A_WL_BOR_CUT3 C245A_DRF_BOR_CUT3

JACKSONVILLE HARBOR FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/2

SHEET 5 OF 37

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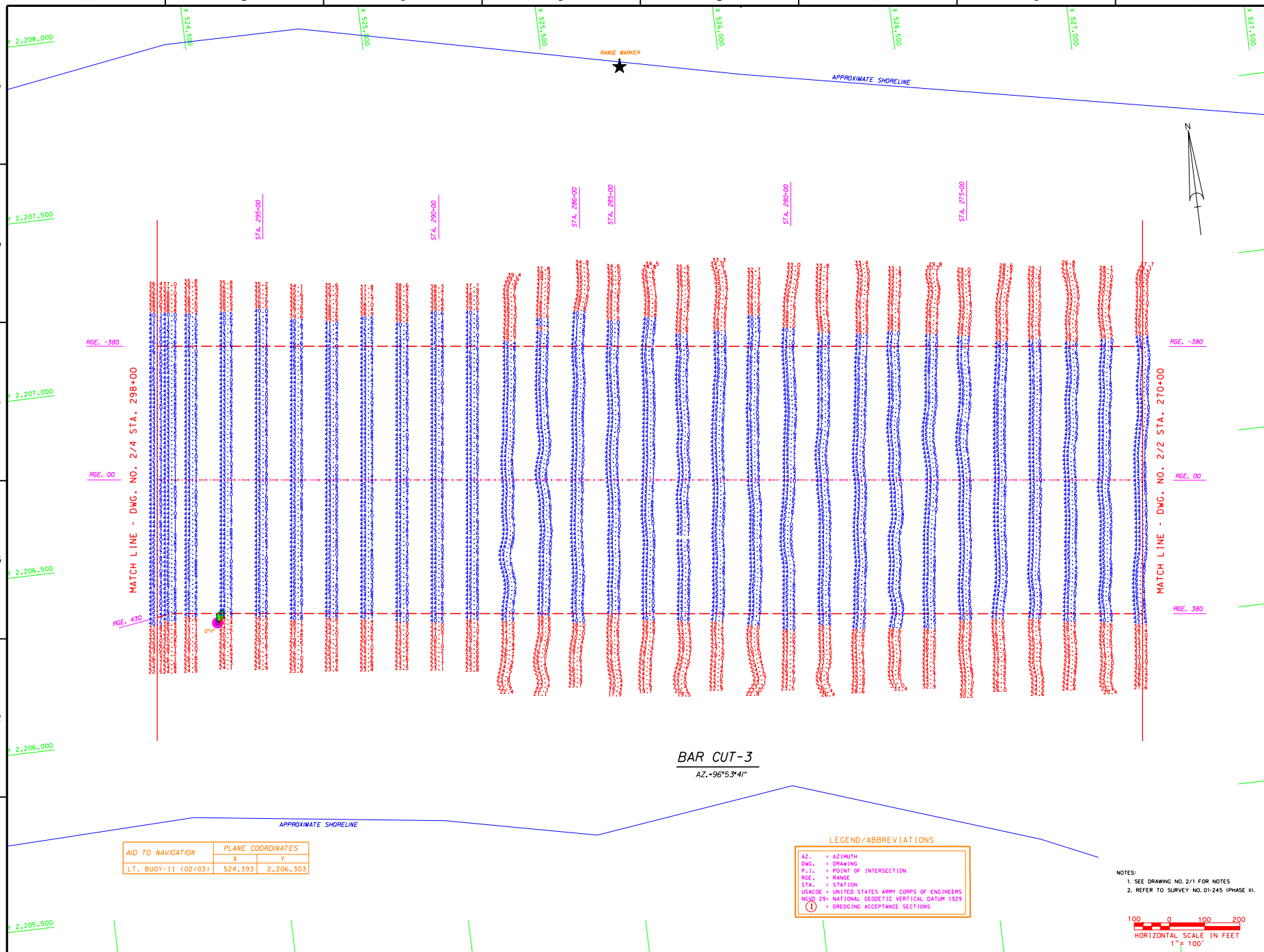

AID TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-11 (02/03)	524,393	2,206,303

LEGEND/ABBREVIATIONS

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
9250 SAN JUAN AVENUE,
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LICENSED BUSINESS NO. 6987

Inv. No. DACW17-01-D-0002
Date: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by
Dwn by: DET
Ckd by: RBS

Date: SEPTEMBER 2003
D.O. FILE NO. 1-38,417

File name: C245A-2/SH06.DGN
Reference files: C245A_BDR_AD.DGN C245A-1/SH06.DGN C245A-3/SH06.DGN C245A-4/SH06.DGN C245A-5/SH06.DGN C245A-6/SH06.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/3

SHEET 6 OF 37

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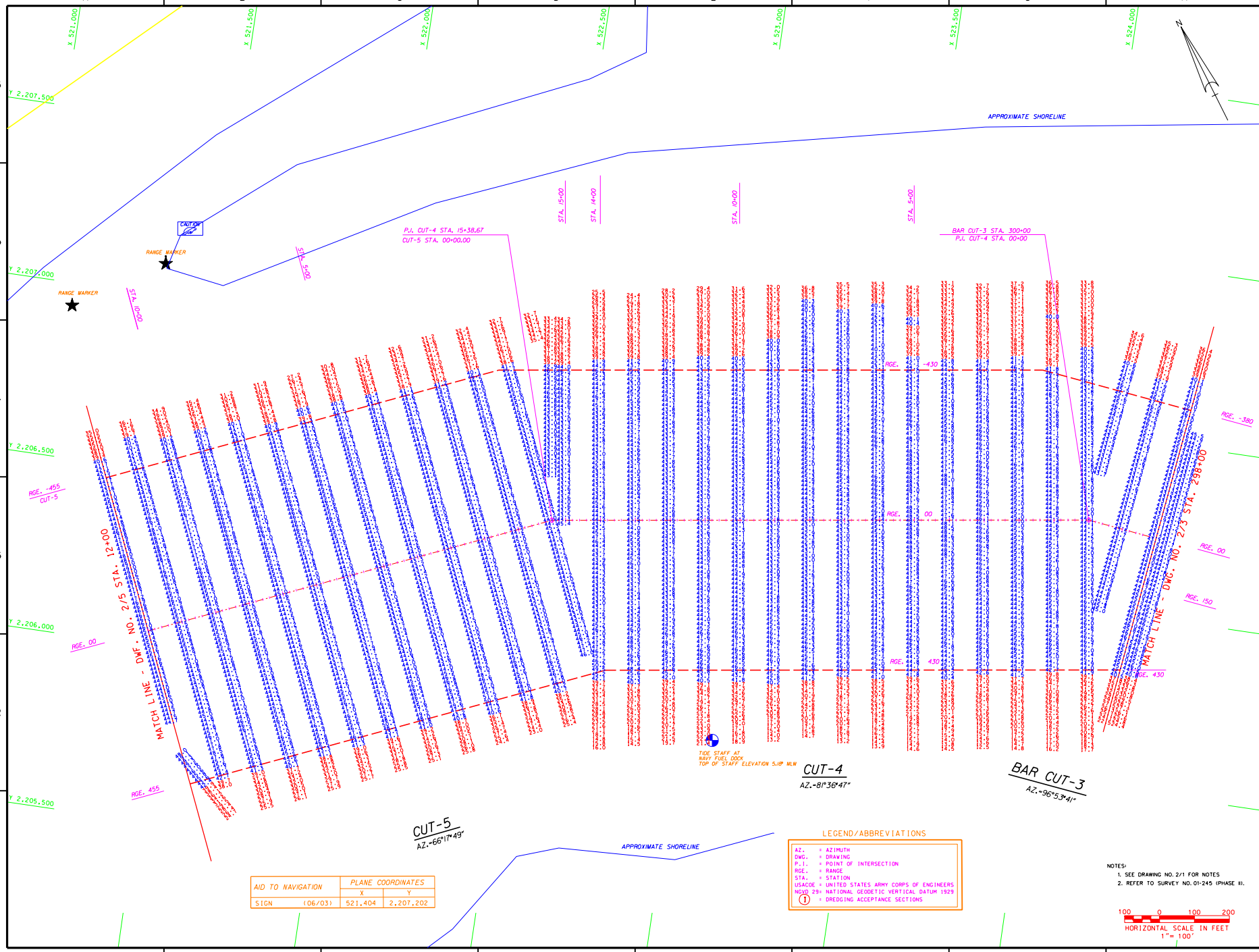

AID TO NAVIGATION	PLANE COORDINATES	
	X	Y
SIGN (06/03)	521,404	2,207,202

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

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No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
8211 BLAKE ROAD
JACKSONVILLE, FLORIDA 32216
PHONE: (904) 721-1177
WWW.ARCSURVEYING.COM
LICENSED BUSINESS NO. 6481

Fn. No. JAC817-01-D-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by:
Drn by: DJS
Ckd by: DJS
Dated: SEPTEMBER 2003
D.O.FILE NO. 1-38,417

File name: C245A_2-D4ALDGN
Reference files:
C245A_BRK-ALDGN
C245A-CONNELDGN
C245A-ALL-ALDGN
C245A-0001-ALDGN
C245A-0002-ALDGN
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C245A-0006-ALDGN
C245A-0007-ALDGN
C245A-0008-ALDGN
C245A-0009-ALDGN
C245A-0010-ALDGN
C245A-0011-ALDGN
C245A-0012-ALDGN
C245A-0013-ALDGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/4

SHEET 7 OF 37

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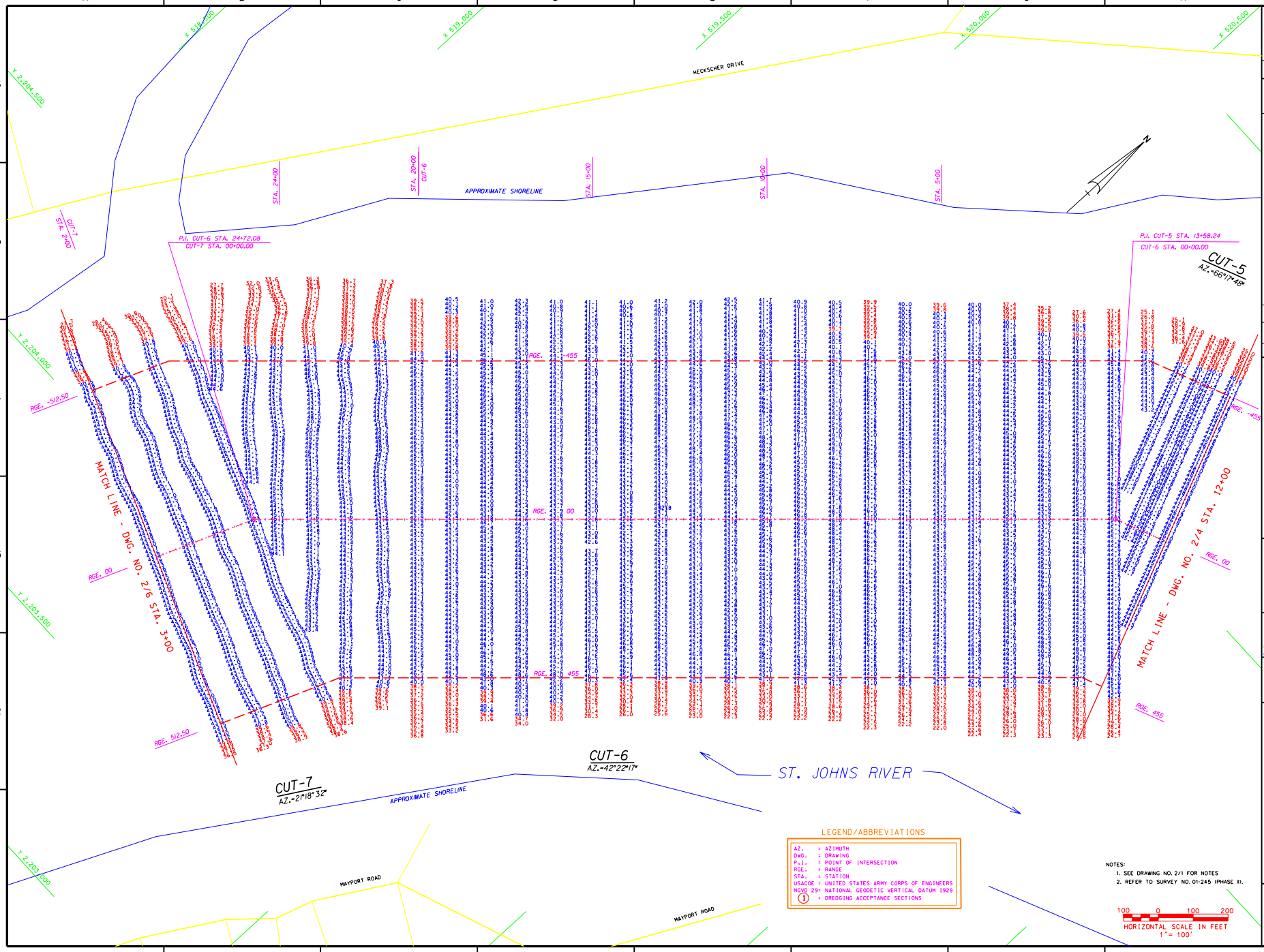

LEGEND/ABBREVIATIONS

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NOTES:

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HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

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No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
3232 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32205
(904) 384-1981 FAX (904) 387-7331
WWW.ARCSURVEYORS.COM
LICENSED BUSINESS No. 6487

Rev. No. DACW17-01-D-0002
Date: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by
Dwn by SET
Ckd by PRS
Date: SEPTEMBER 2003

D.O.F.FILE NO. T-38,417

File name: C245a_2-SHA8.DGN
Reference files:
C245A_SUR_ALIGN
C245A_SUR_BASE
C245A_SUR_BLOCK
C245A_MODEL_BATHY
C245A_MODEL_BOTTOM
C245A_MODEL_BOTTOM
C245A_MODEL_BATHY

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/5

SHEET 8 OF 37

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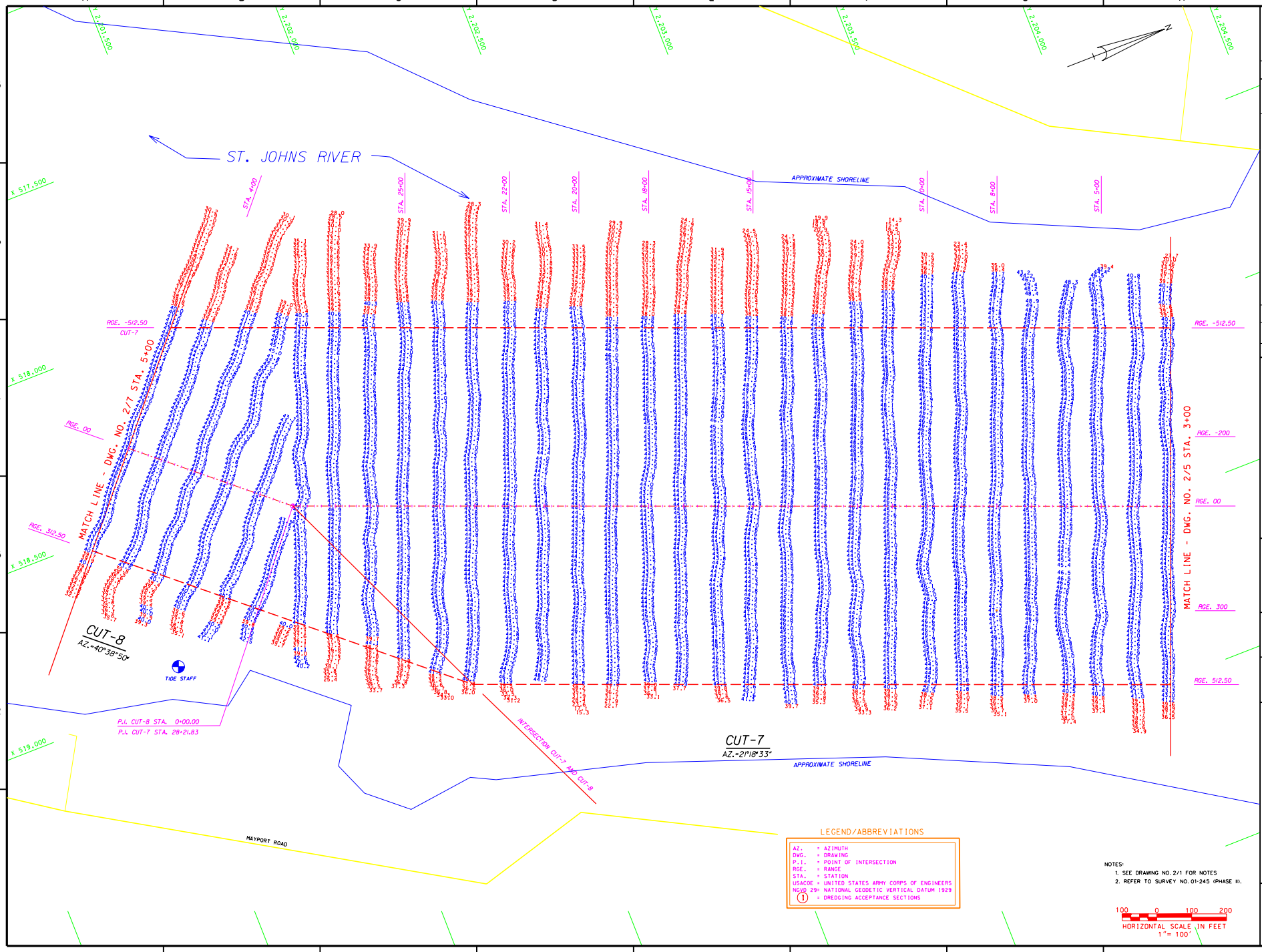

LEGEND/ABBREVIATIONS

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(1)	= DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

HORIZONTAL SCALE IN FEET
100 0 100 200
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
8222 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904-384-8311
LICENSED BUSINESS NO. 6487

Inv. No. DACW17-01-C-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: NOVEMBER 12, 2003
Plot scale: AS SHOWN

Designed by
Dwn by: CET
Ckd by: PBS

Dated: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

File name: C245-2 SHEET.DGN
Reference files:
C245A_DWF_ALL.DGN
C245A_DWF_ALL.DGN
C245A_W_ALL.DGN
C245A_W_ALL.DGN
C245A_DEPTHS.DGN
C245A_DEPTHS.DGN

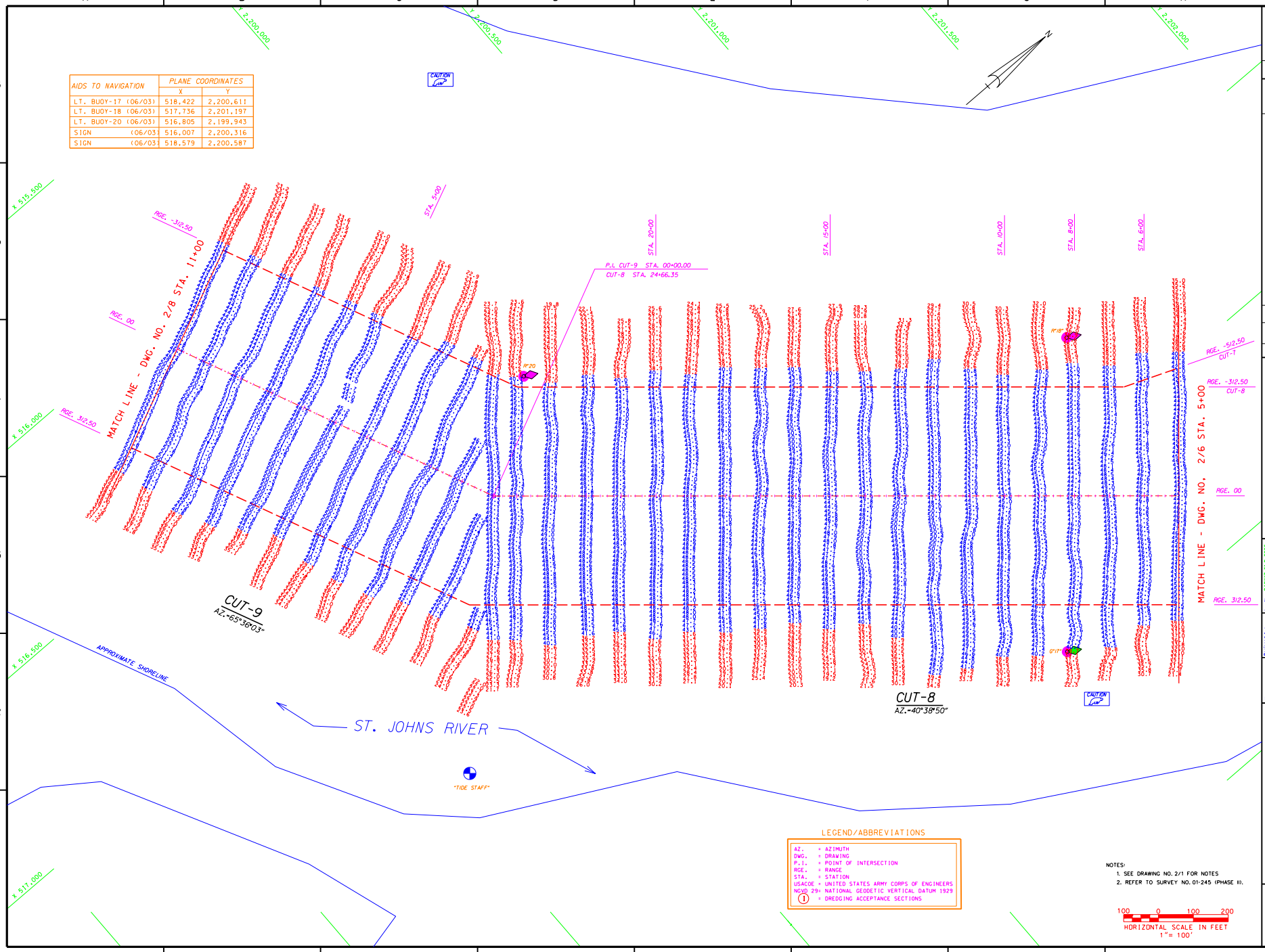
JACKSONVILLE HARBOR FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/6

SHEET 9 OF 37

...\Survey drawings\c245a-sh09.dgn 04/22/2004 12:08:23 PM

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-17 (06/03)	518,422	2,200,611
LT. BUOY-18 (06/03)	517,736	2,201,197
LT. BUOY-20 (06/03)	516,805	2,199,943
SIGN (06/03)	516,007	2,200,316
SIGN (06/03)	518,579	2,200,587



LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5020 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311 FAX: 384-8317
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS NO. 6487

Inv. No. DACW17-01-C-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

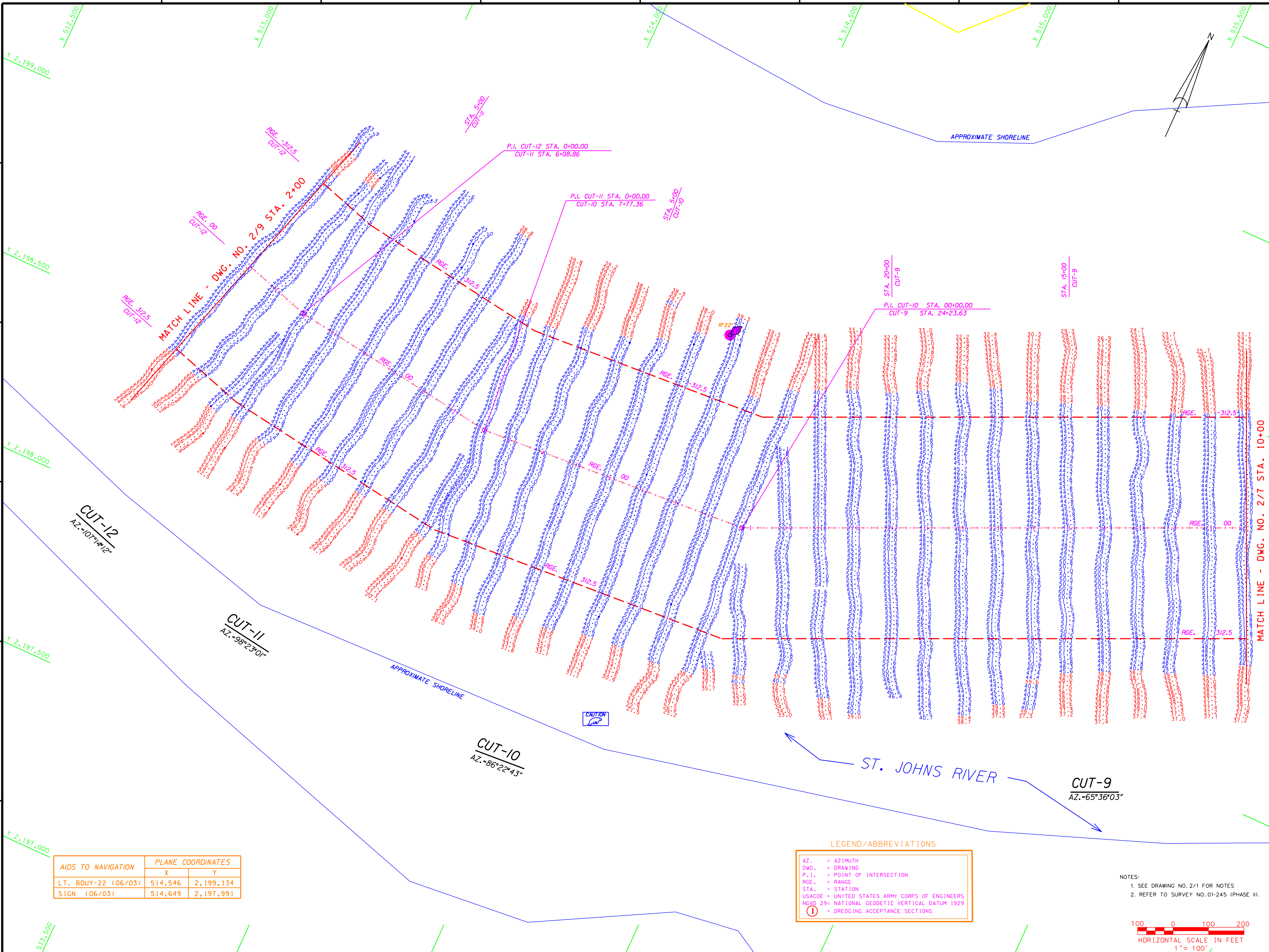
Designed by:
Dwn by: SET
Ckd by: PRS

File name: C245A-2-STA.DGN
Reference files: C245-A_NOS_JAX.DGN C245-A_NGS_JAX.DGN C245-A_JAX_TIDE.DGN C245-A_JAX_TIDE_2.DGN C245-A_BASE_MAP.DGN C245-A_BASE_MAP_2.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/7
SHEET 10 OF 37

...\Survey drawings\c245a-sh10.dgn 04/22/2004 12:09:35 PM



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BOUY-22 (06/03)	514,546	2,199,134
SIGN (06/03)	514,649	2,197,991

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
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NOTES:

1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

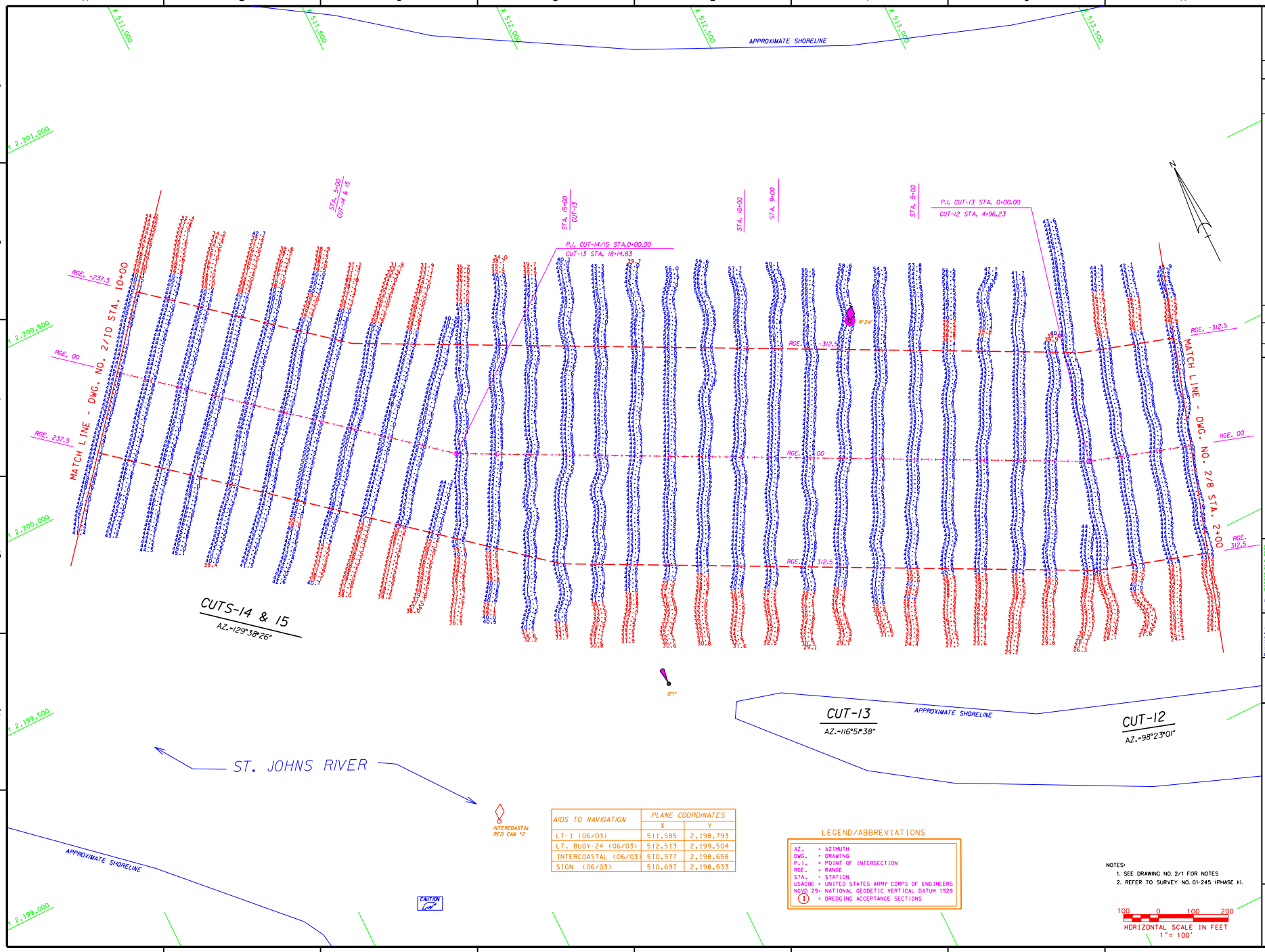
ARC SURVEYING & MAPPING, INC.
5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
WWW.ARCSURVEYORS.COM
LICENSED BUSINESS NO. 6487

Designed by:
Dwn by: DET
Ckd by: PBS
Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O.FILE NO. 1-38,417

File name: C245A_2-08AD.DGN
Reference files: C245A_BDR_AD.DGN, C245ACHAN.DGN, C245APLAN.DGN, C245A_NAV_AD.DGN, C245A_AS7C9AD_SELEV.DGN, C245A_ASBC10AD_SELEV.DGN, C245A_ASBC11AD_SELEV.DGN, C245A_ASBC12AD_SELEV.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/8
SHEET 11 OF 37



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT-1 (06/03)	511,585	2,198,793
LT. BUOY-24 (06/03)	512,513	2,199,504
INTERCOASTAL (06/03)	510,977	2,198,658
SIGN (06/03)	510,697	2,198,533

LEGEND/ABBREVIATIONS

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NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

HORIZONTAL SCALE IN FEET
1" = 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
3202 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32205
PHONE: (904) 384-8311 FAX: (904) 387-1837
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS No. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: CJE
Ckd by: PRS

Dated: SEPTEMBER 2003
D.O.F.ILE NO. 1-38,417

File name: C245A-2-SHA.DGN
Reference files: C245-SL-NOR-ALIGN C245-SL-SOU-ALIGN C245-CL-NR-DEDGE C245-CL-SR-DEDGE C245-CL-NR-DEDGE C245-CL-SR-DEDGE C245-CL-NR-DEDGE C245-CL-SR-DEDGE

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/9

SHEET 12 OF 37

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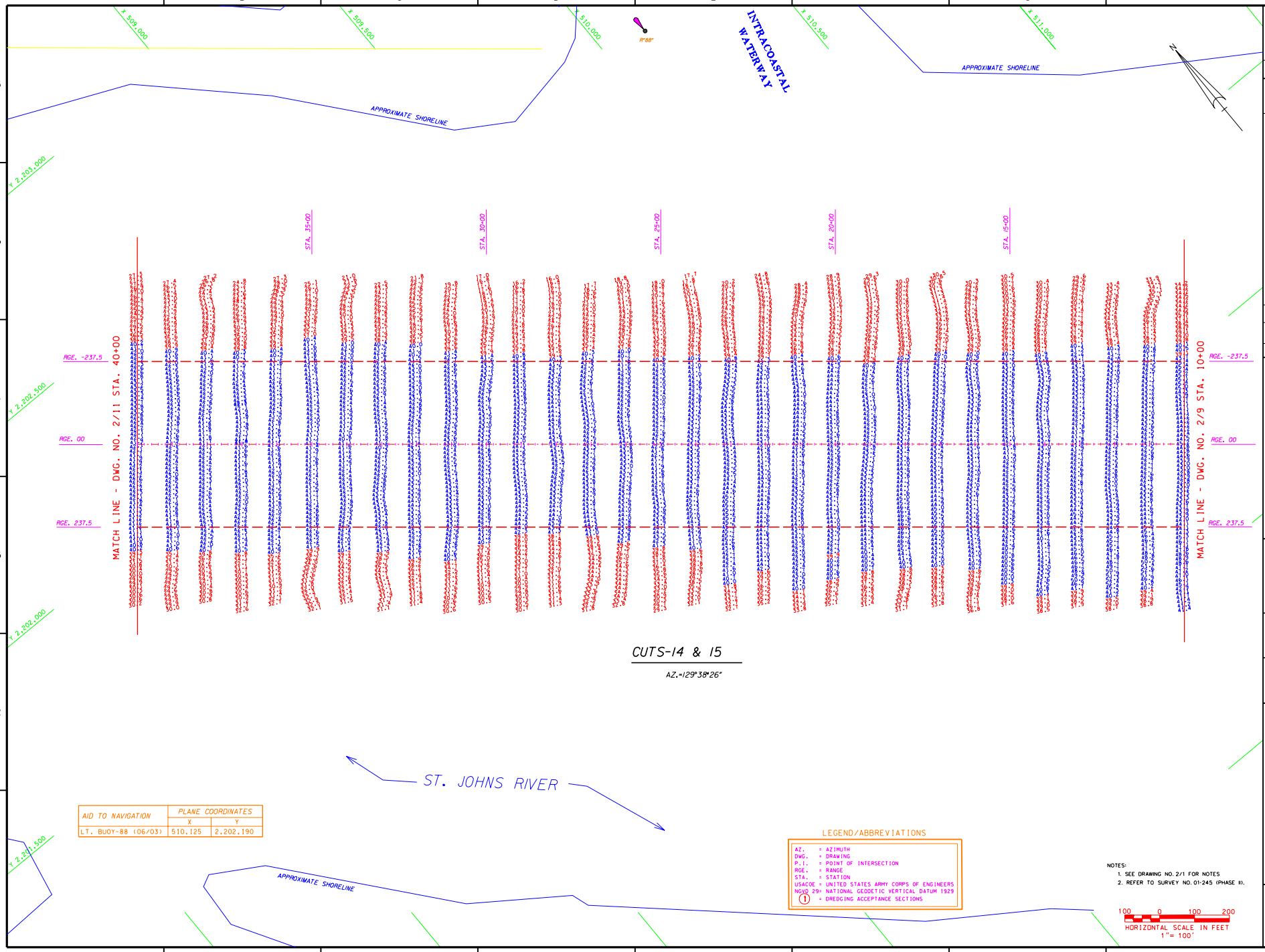

AID TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-88 (06/03)	510,125	2,202,190

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
8222 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904-384-8311
FAX: 904-384-8315
LICENSED BUSINESS NO. 6487

Inv. No. DACW17-01-C-0002
Dated: FEBRUARY 22, 2000
Scale: AS SHOWN
Plot date: AUGUST 18, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: DET
Ckd by: PBS

Dated: SEPTEMBER 2003
D.O.F.ILE NO. 1-38,417

File name: 245A-2-3020H
Reference files:
245A_DWG_AC.DGN
245A_DWG_BASE.DGN
245A_DWG_PLAN.DGN
245A_DWG_CUTS.DGN
245A_DWG_CUTS_PLAN.DGN

JACKSONVILLE HARBOR FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/10

SHEET 13 OF 37

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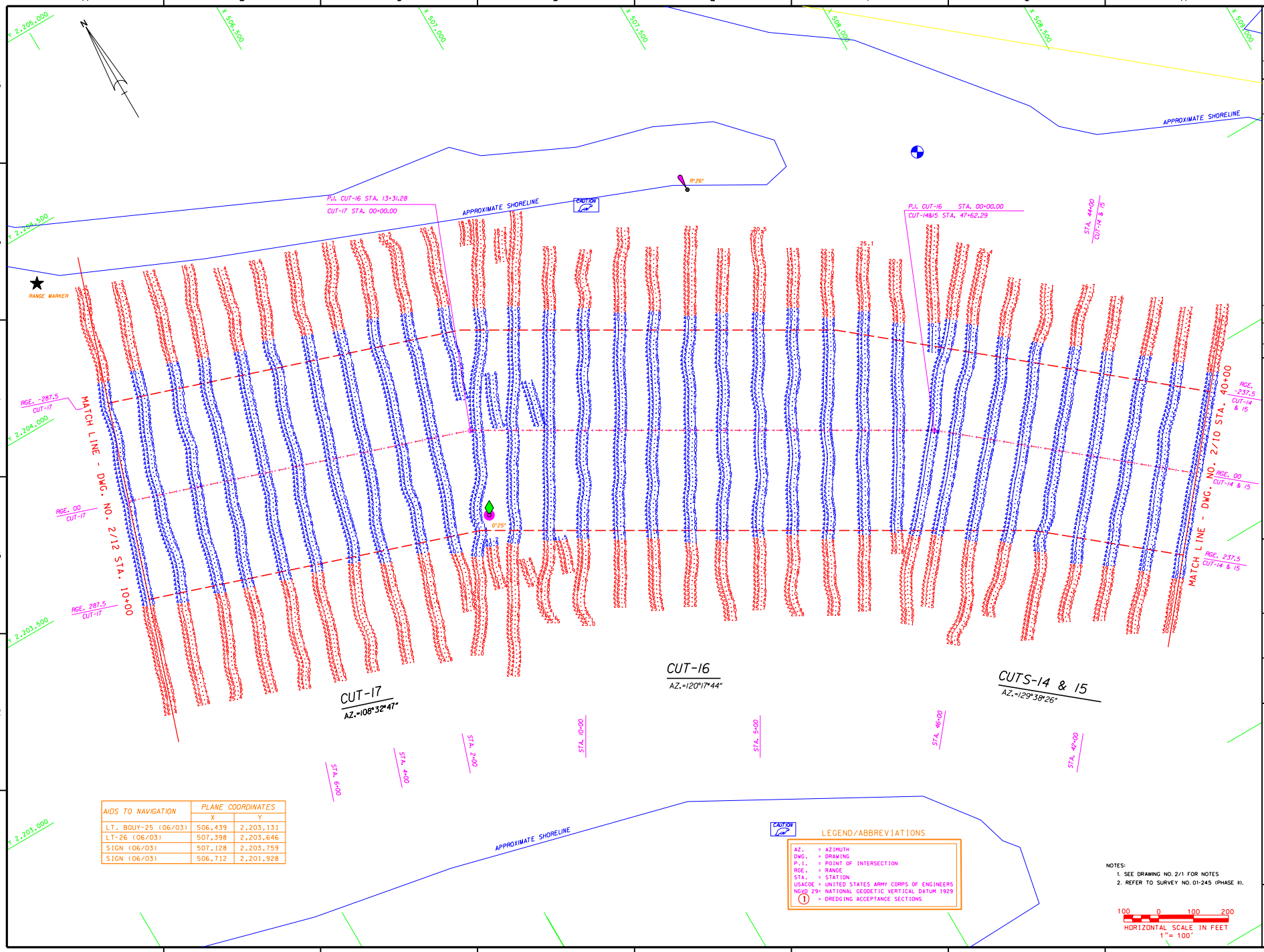

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BOUY-25 (06/03)	506,439	2,203,131
LT-26 (06/03)	507,398	2,203,646
SIGN (06/03)	507,128	2,203,759
SIGN (06/03)	506,712	2,201,928

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
8222 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904-381-8311
FAX: 904-381-8313
LICENSED BUSINESS NO. 6487

Inv. No. DACW17-01-0-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O.FILE NO. 1-38,417

Designed by
Dwn by DET
Ckd by RBS

File name: C245-2 HALDON
Reference files:
C245A_DRF_ALCON
C245A_DRF_HALDON
C245A_M_ALCON
C245A_M_HALDON
C245A_DRF_SUTTON
C245A_DRF_SUTTON
C245A_M_SUTTON
C245A_M_SUTTON

JACKSONVILLE HARBOR FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/11

SHEET 14 OF 37

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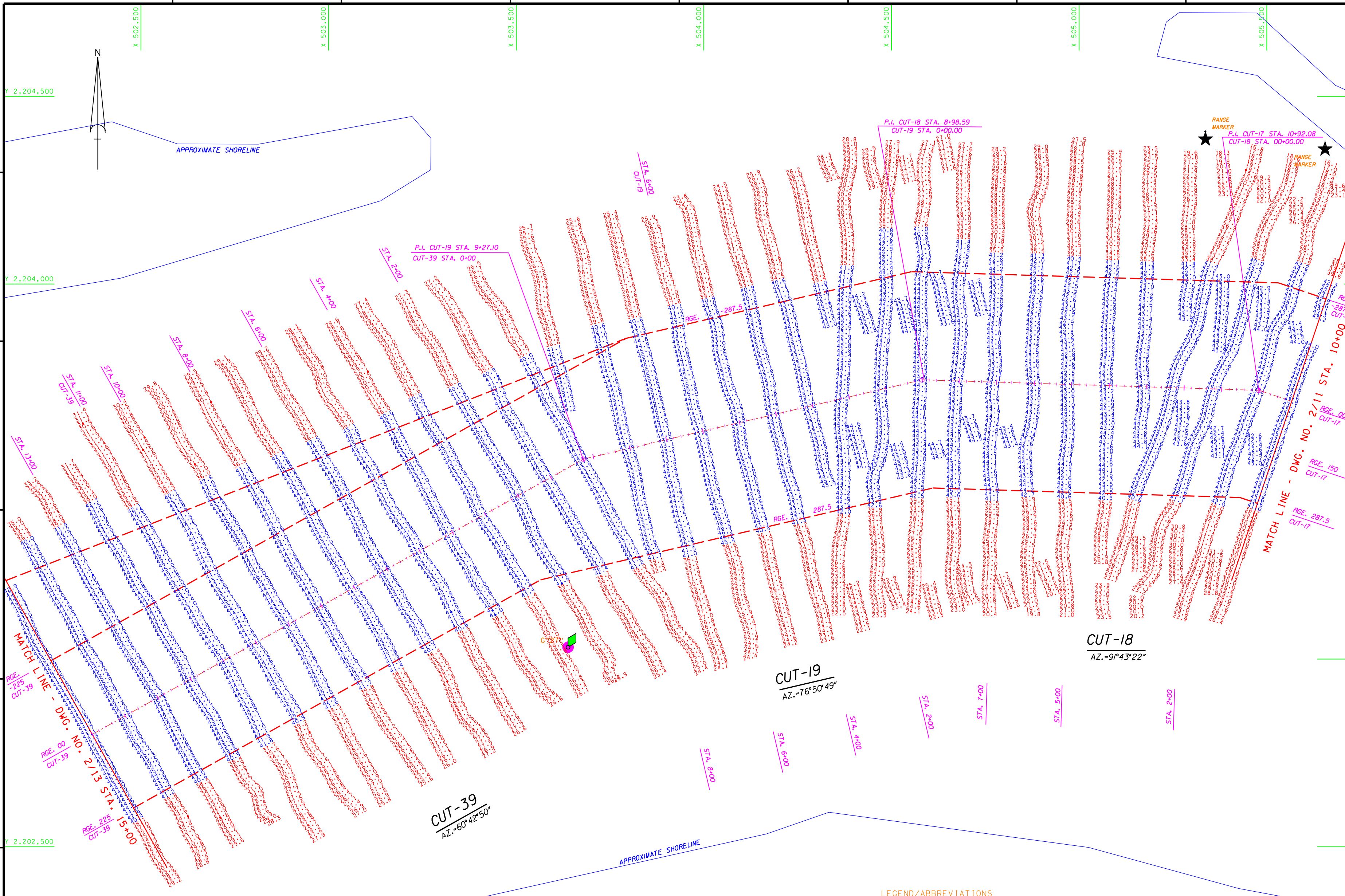

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-27 (06/03)	503,638	2,203,031
SIGN (06/03)	503,403	2,202,288

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
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2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1" = 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

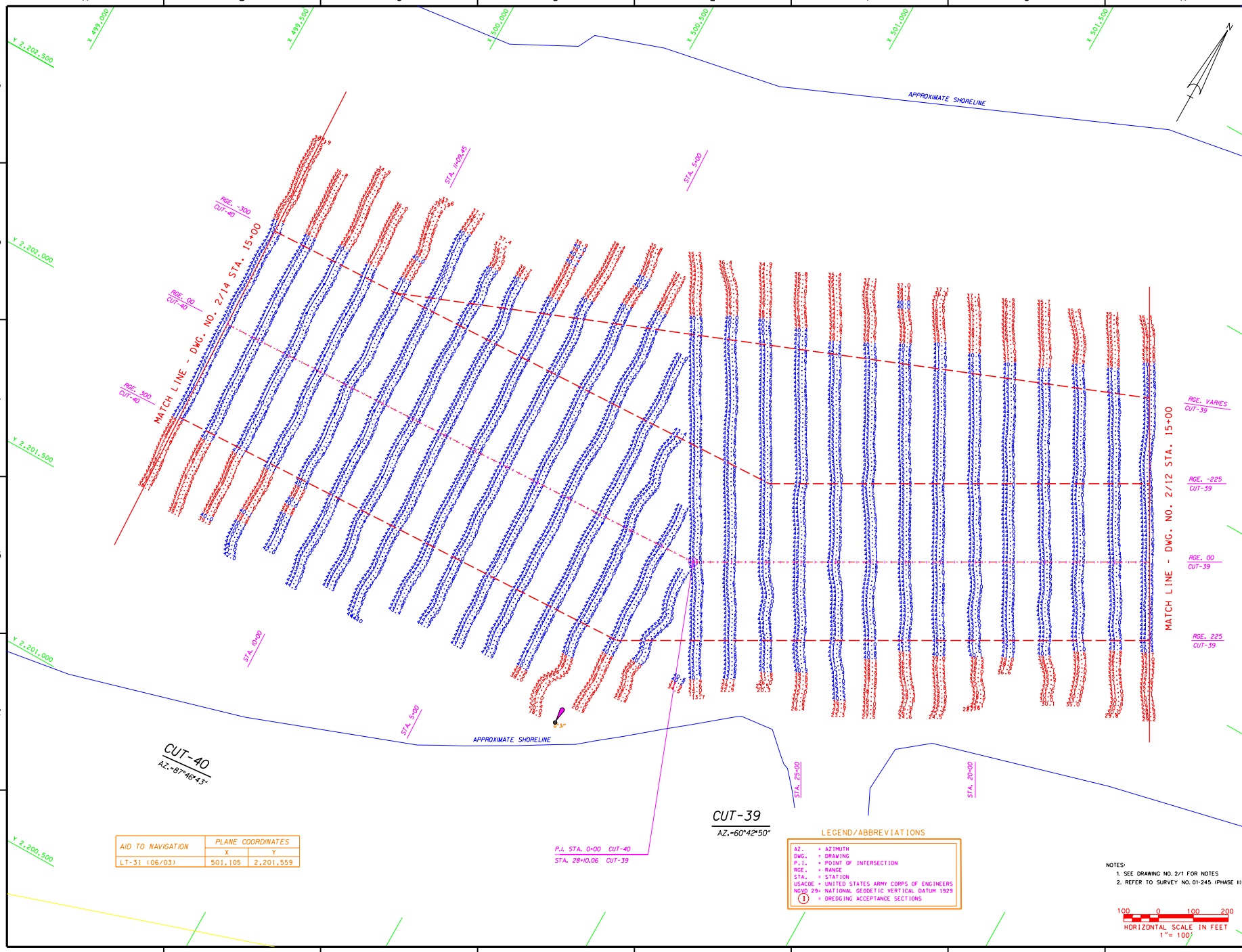
ARC SURVEYING & MAPPING, INC.
5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
WWW.ARCSURVEYORS.COM
LICENSED BUSINESS NO. 6487

Designed by:
Dwn by: DET
Ckd by: PBS
Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O.FILE NO. 1-38,417

File name: C245A_2-12AD.DGN
Reference files: C245A_BDR_AD.DGN, C245ACHAN.DGN, C245APLAN.DGN, C245A_NAV_AD.DGN, C245A_AS10ACUT18.DGN, C245A_AS10ACUT19.DGN, C245A_AS10BCUT19.DGN, C245A_AS9BCUT19.DGN, C245A_AS9BCUT39.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/12



AID TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT-31 (06/03)	501,105	2,201,559

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
5202 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: (904) 384-8311 FAX: (904) 387-1837
E-MAIL: ARCSURVEY@COX.NET
LICENSED BUSINESS NO. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: CET
Ckd by: PRS

Dated: SEPTEMBER 2003
D.O.F.ILE NO. 1-38,417

File name: C245A-2-DWG.DGN
Reference files:
C245A_MOB_AERIAL
C245A_MOB_PLAN
C245A_MOB_PROFILE
C245A_MOB_XS
C245A_MOB_DREDGE
C245A_CONTROL_NETWORK
C245A_CONTROL_SECTION
C245A_CONTROL_SECTION

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/13

SHEET 16 OF 37

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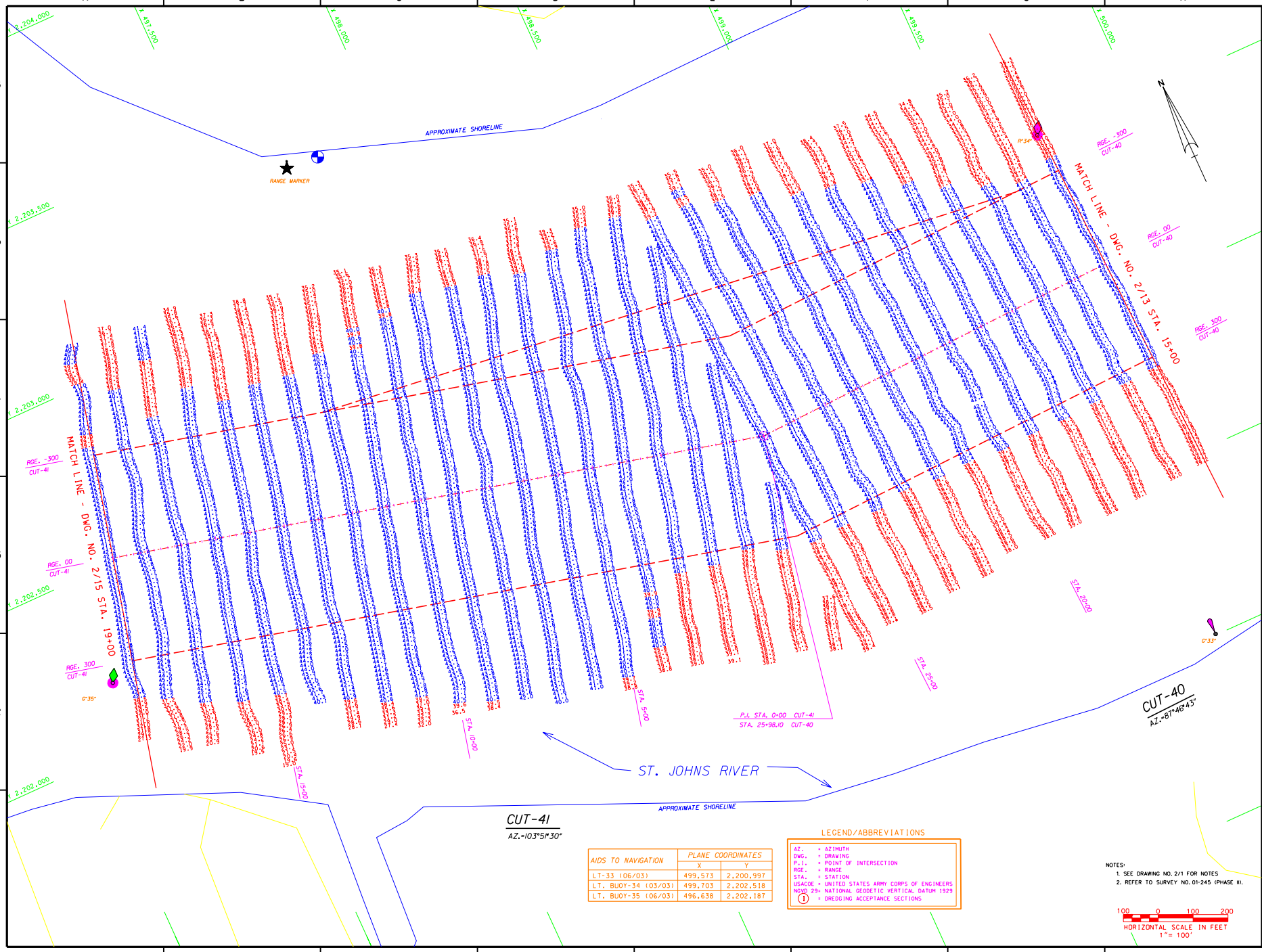

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT-33 (06/03)	499,573	2,200,997
LT. BUOY-34 (03/03)	499,703	2,202,518
LT. BUOY-35 (06/03)	496,638	2,202,187

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: (904) 384-8311 FAX: 384-8317
E-MAIL: ARCSURVEY@AOL.COM
LICENSED BUSINESS No. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 10, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: GET
Ckd by: PRS

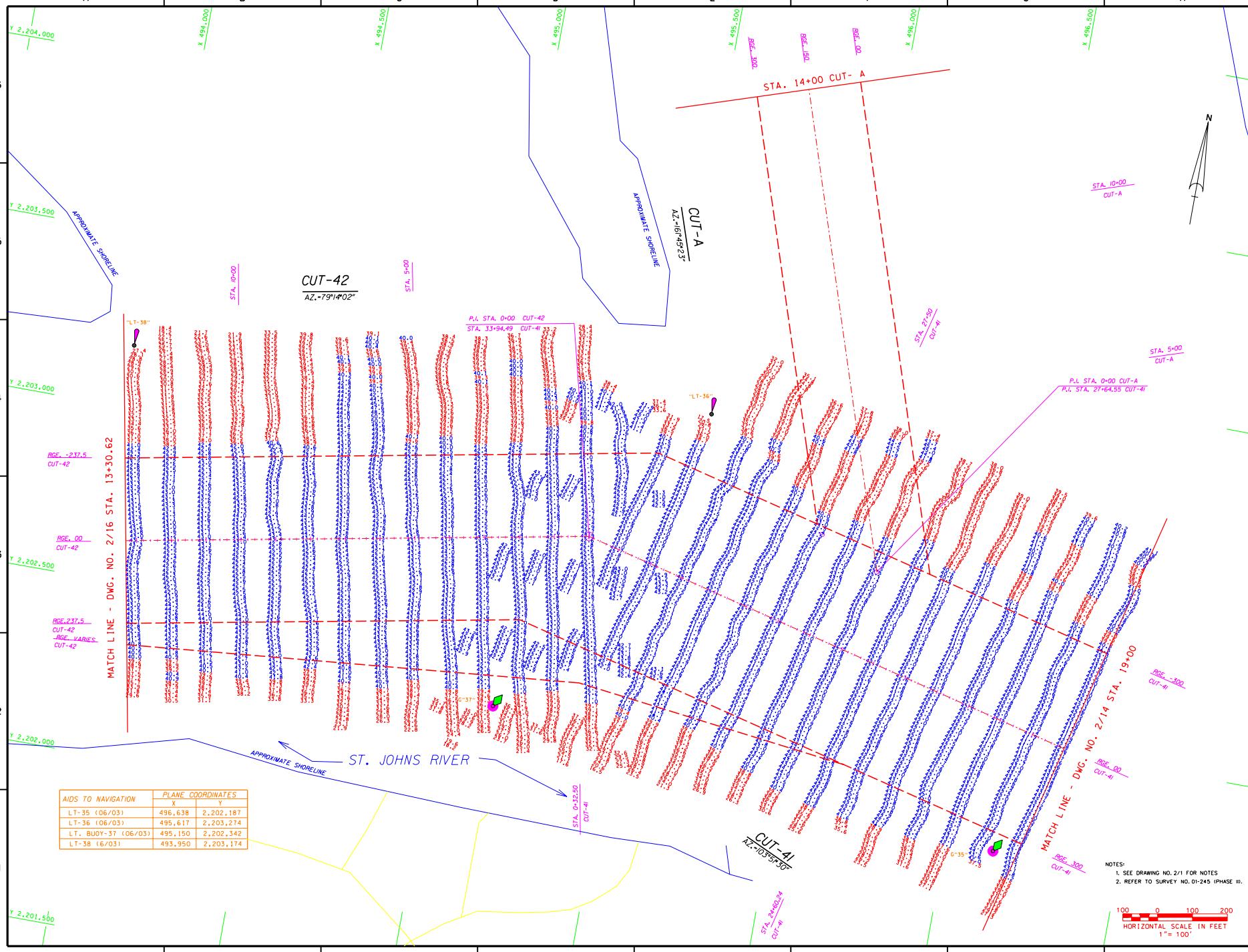
Dated: SEPTEMBER 2003
D.O.F.FILE NO. 1-38,417

File name: C245A-2-1NAD.DGN
Reference files: C245A_NOR_ALIGN C245A_NOR_PLAN C245A_CUT_PLAN C245A_CUT_PROFILE ARC_BASEMAP_NAD83 ARC_BASEMAP_NAVD88

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/14
SHEET 17 OF 37

...\Survey drawings\c245a-sh17.dgn 04/22/2004 12:30:13 PM



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y
LT-35 (06/03)	496,638	2,202,187
LT-36 (06/03)	495,617	2,203,274
LT. BUOY-37 (06/03)	495,150	2,202,342
LT-38 (6/03)	493,950	2,203,174

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE III).

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
5200 SAN AMADO
JACKSONVILLE, FLORIDA 32210
PHONE: 904-384-8377
FAX: 904-384-8378
LICENSED BUSINESS NO. 6497

Inv. No. 04W17-01-0002
Scale: FEBRUARY 22, 2001
Plot scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Designed by
Dwn by: JLT
Ckd by: PBS
Date: SEPTEMBER 2003
D.O.F.FILE NO. 1-38.417

File name: C245-SH18.DGN
Reference files:
C245-ALIGN.DGN
C245-BLOCK.DGN
C245-CUT-A.DGN
C245-CUT-41.DGN
C245-CUT-42.DGN
C245-SURVEY.DGN
C245-SHORELINE.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/15

SHEET 18 OF 37

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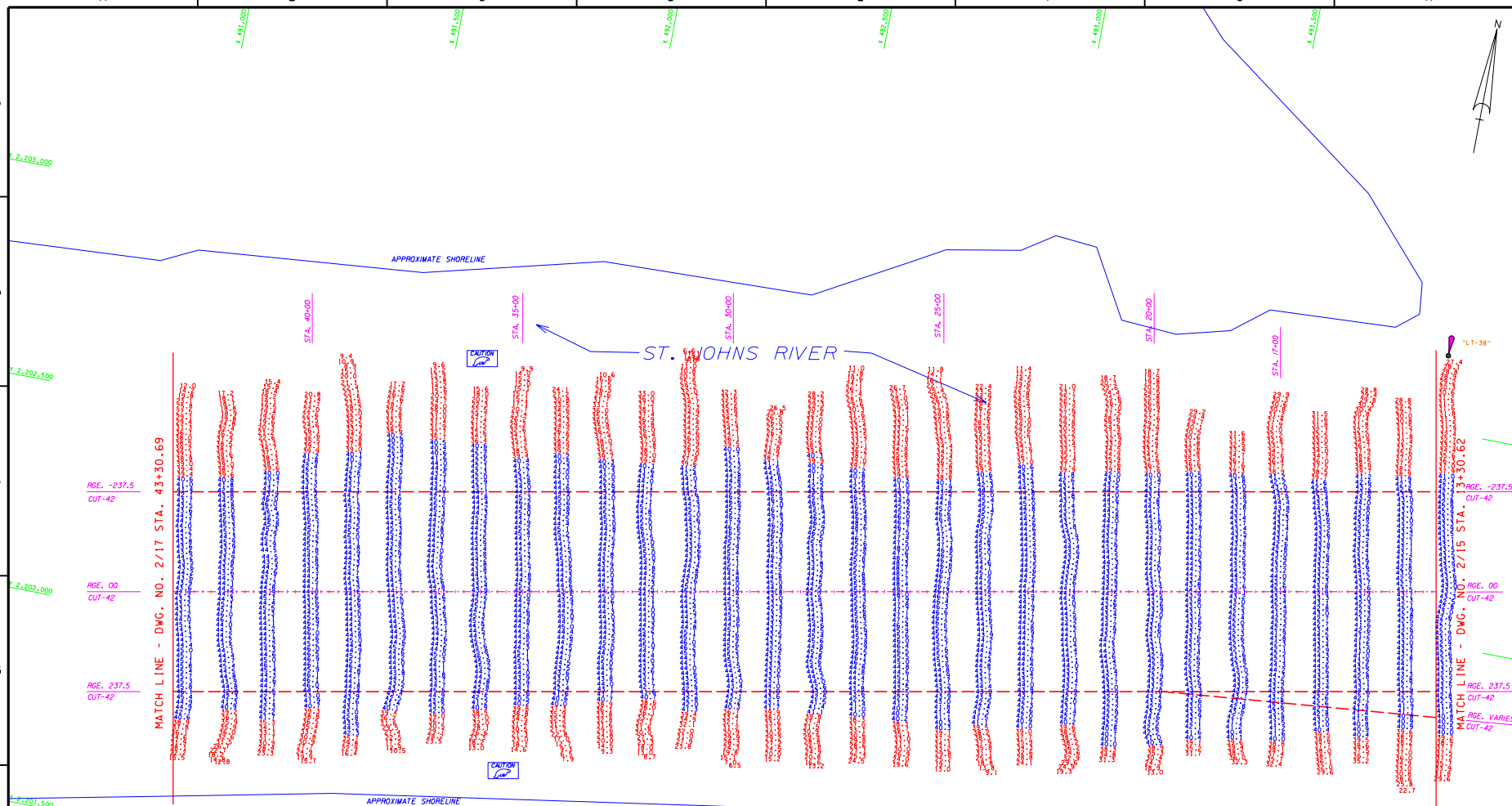

CUT-42

AZ.-79°14'02.56"

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
MANATEE SIGN (06/03)	491.931	2,201.791
MANATEE SIGN (06/03)	491.699	2,202.743
LT-38 (06/03)	493.950	2,203.174

LEGEND/ABBREVIATIONS

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5020 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: (904) 384-8311
EMAIL: ARCSURVEY@AOL.COM
LICENSED BUSINESS No. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

Designed by:
Dwn by: SET
Ckd by: PRS

File name: C245A-2_R1.DGN
Reference files: C245A_NOR_ALIGN C245A_NOR_CUT C245A_NOR_PLOT C245A_NOR_PROFILE C245A_NOR_TEXT DGN: ARCSURVEY.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/16
SHEET 19 OF 37

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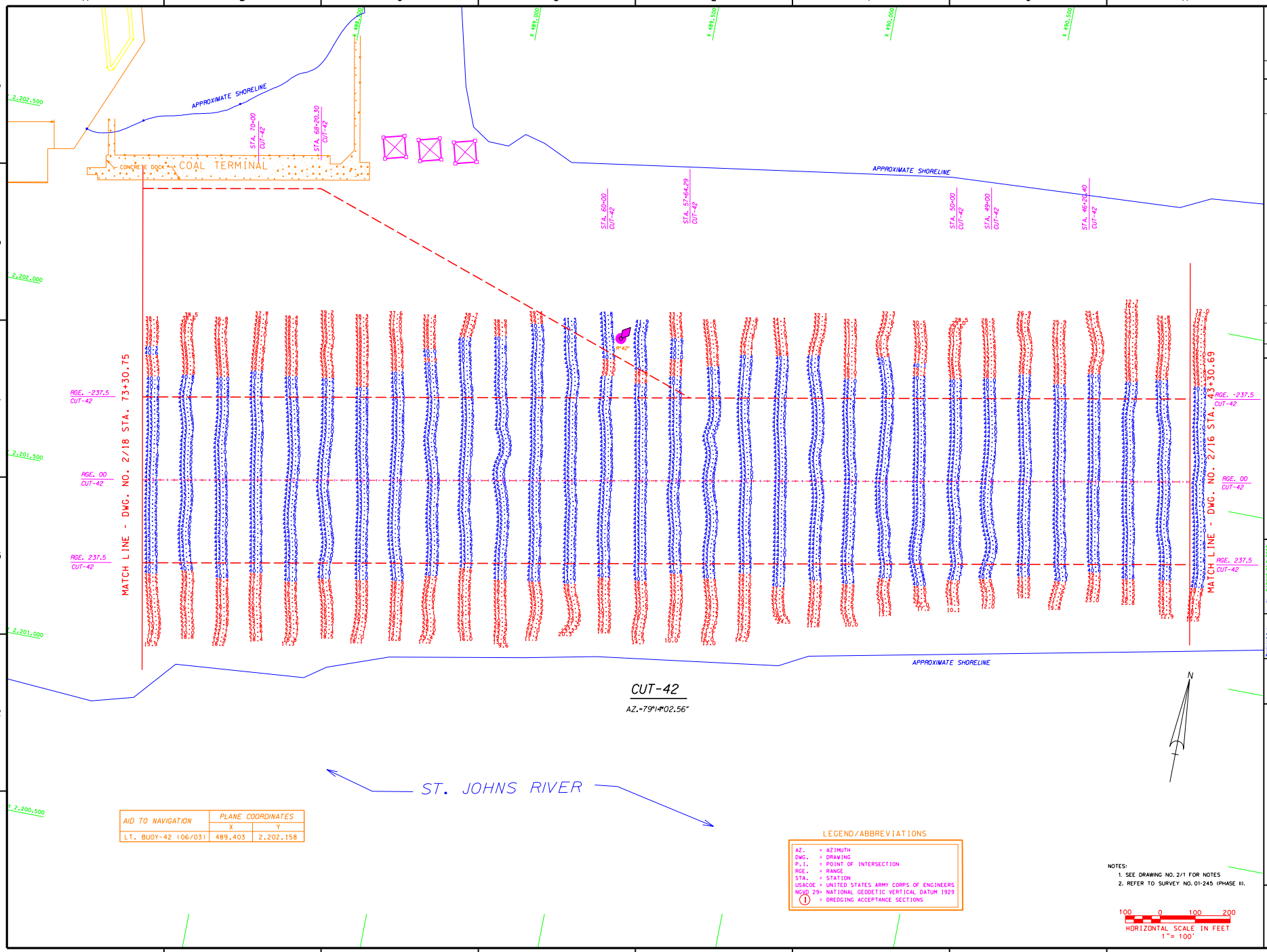

AID TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-42 (06/03)	489,403	2,202,158

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1" = 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
9250 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32219
PHONE: 904-381-8217
FAX: 904-381-8217
LICENSED BUSINESS CODE 7287
CERTIFICATE NUMBER LB 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O. FILE NO. 1-38,417

Designed by:
Dwn by: DET
Ckd by: PBS

File name: C245A-2-1-14.DGN
Reference files:
C245A-2-1-1.DGN
C245A-2-1-2.DGN
C245A-2-1-3.DGN
C245A-2-1-4.DGN
C245A-2-1-5.DGN
C245A-2-1-6.DGN
C245A-2-1-7.DGN
C245A-2-1-8.DGN
C245A-2-1-9.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/17

SHEET 20 OF 37

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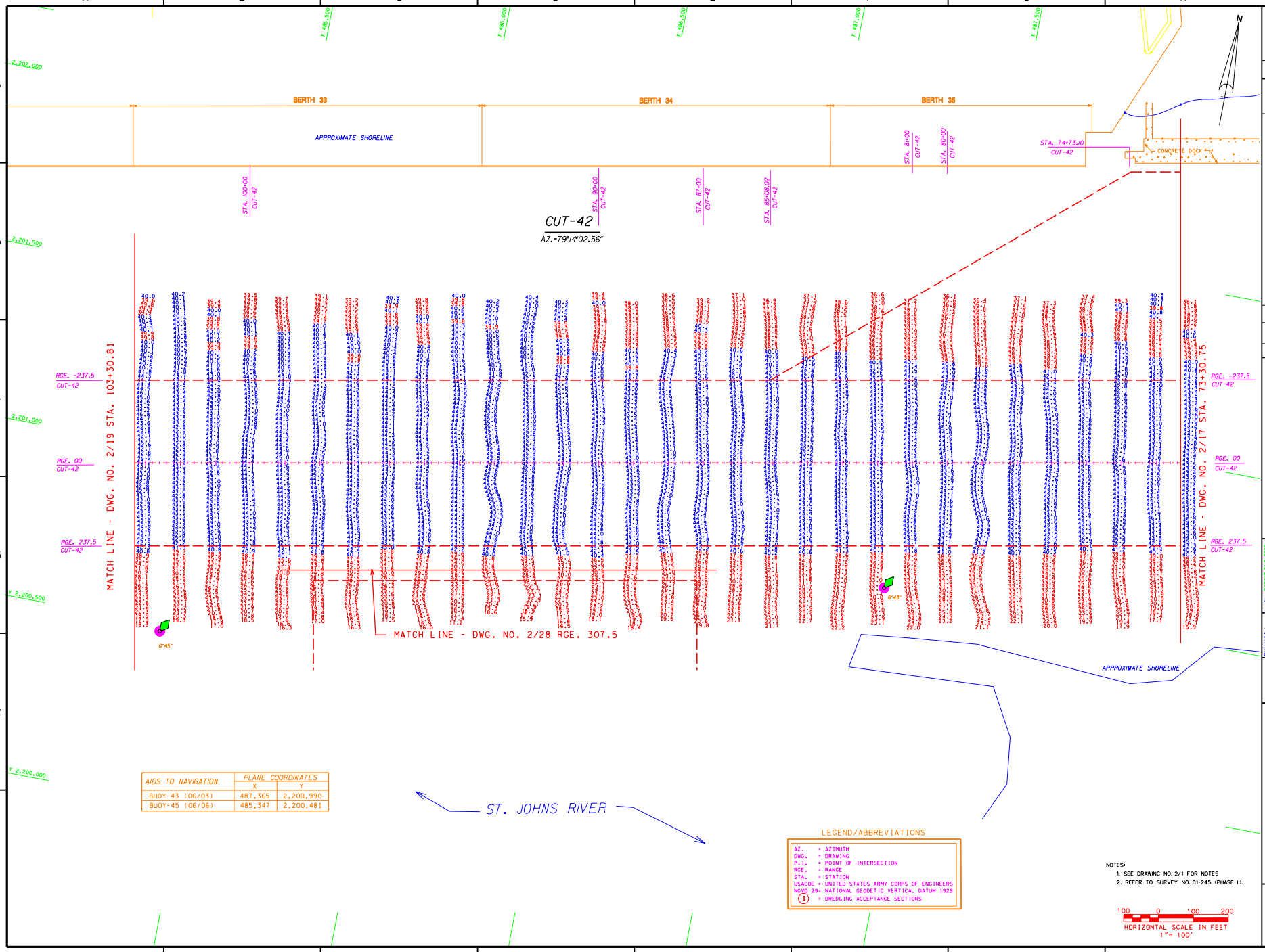

AIDS TO NAVIGATION	PLANE COORDINATES X	Y
BUOY-43 (06/03)	487,365	2,200,990
BUOY-45 (06/06)	485,347	2,200,481

LEGEND/ABBREVIATIONS

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5920 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311
FAX: (904) 384-8312
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS No. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Designed by:
Dwn by: CET
Ckd by: PRS
Dated: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

File name: C245A_2-18A3.DGN
Reference files: C245A_1B05_JAX.DGN C245A_1B06_JAX.DGN C245A_1B07_JAX.DGN C245A_1B08_JAX.DGN C245A_GRIDCOR_SQ.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/18
SHEET 21 OF 37

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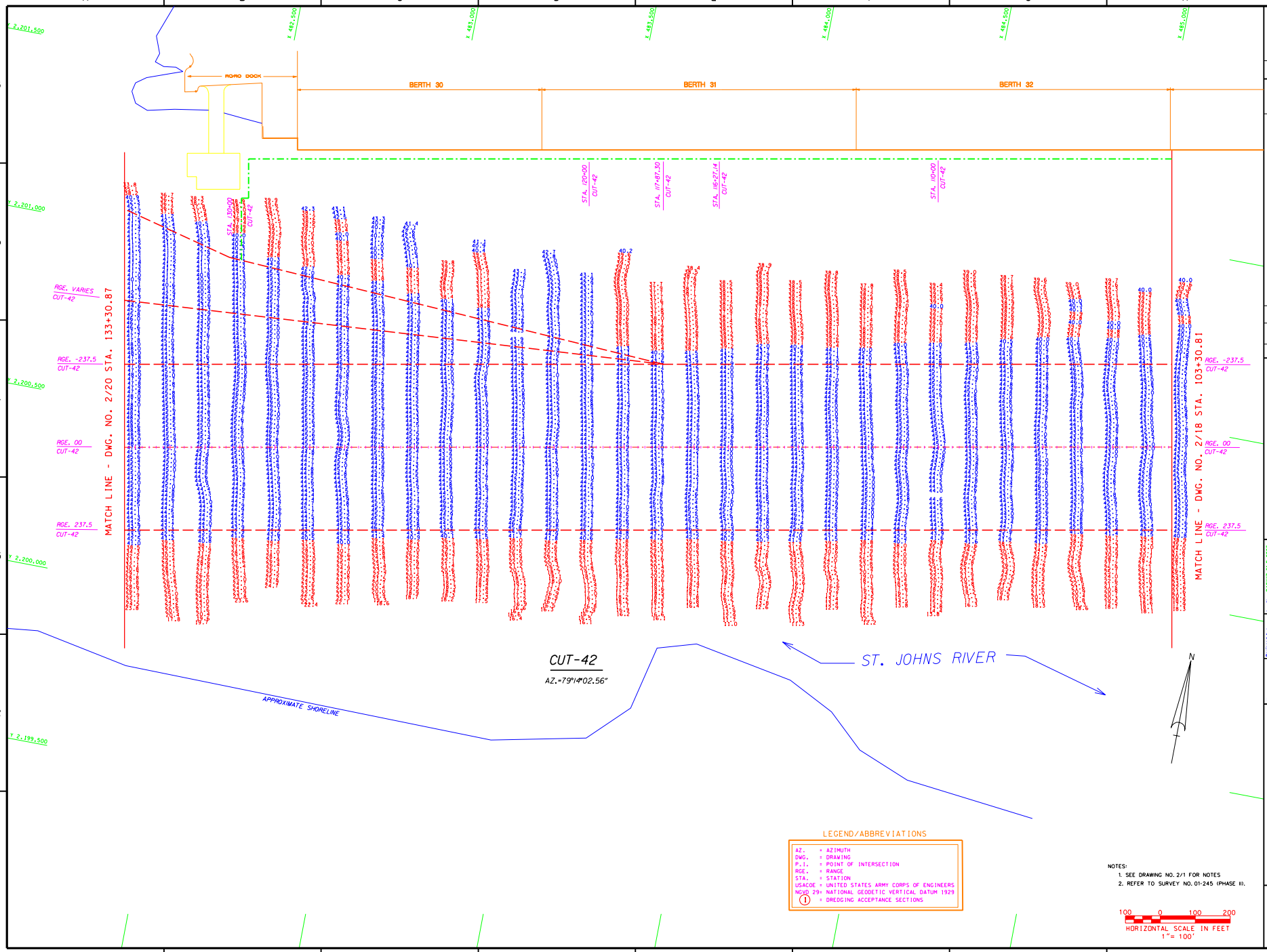

LEGEND/ABBREVIATIONS

AZ.	= AZIMUTH
DWG.	= DRAWING
P.I.	= POINT OF INTERSECTION
RGE.	= RANGE
STA.	= STATION
USACOE	= UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29	= NATIONAL GEODETIC VERTICAL DATUM 1929
(1)	= DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

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No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5920 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311 FAX: (904) 387-1287
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS NO. 6487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 10, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: SET
Ckd by: PRS

Dated: SEPTEMBER 2003
D.O.F.FILE NO. 1-38,417

File name: C245A-2 1NAL.DGN
Reference files: C245A_NOR_ALIGN C245A_NOR_CUT C245A_PL_PN_DGN C245A_PL_PN_DGN C245A_PL_PN_DGN CONTROL_MONUMENTS.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/19
SHEET 22 OF 37

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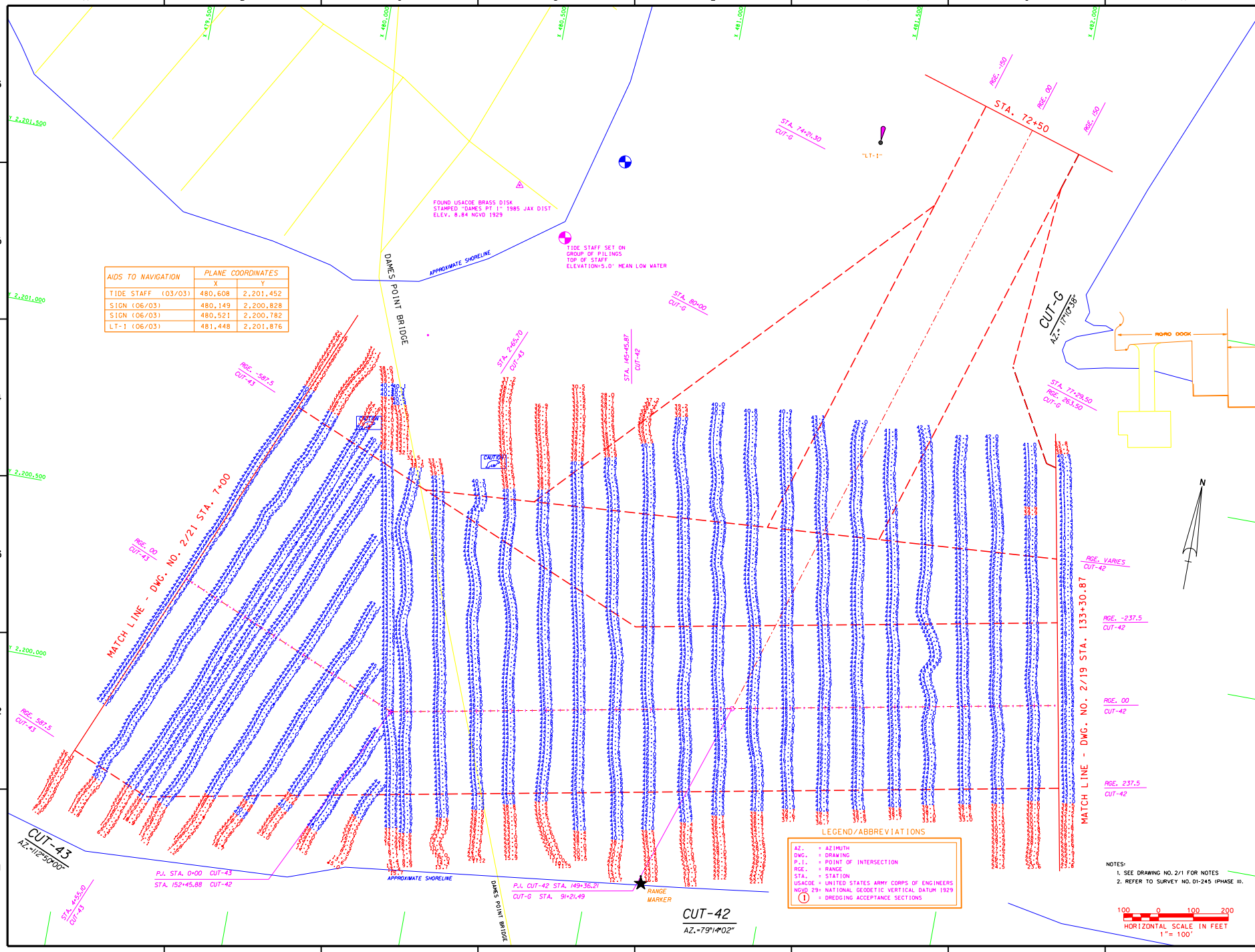

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
TIDE STAFF (03/03)	480,608	2,201,452
SIGN (06/03)	480,149	2,200,828
SIGN (06/03)	480,521	2,200,782
LT-1 (06/03)	481,448	2,201,876

LEGEND/ABBREVIATIONS

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
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2. REFER TO SURVEY NO. 01-245 (PHASE III).

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
5200 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904-384-8377
FAX: 904-384-8378
LICENSED BUSINESS NO. 6487

Inv. No. DACW17-01-D-0002
Date: FEBRUARY 22, 2002
Scale: AS SHOWN
Plot date: SEPTEMBER 10, 2003
Plot scale: AS SHOWN
Designed by
Dwn by KET
Ckd by PBG
Dated: SEPTEMBER 2003
D.O.FILE NO. 1-38.417

File name: 2245-2-2000.DGN
Reference files:
2245-2-2000.DGN
2245-2-2000.DGN
2245-2-2000.DGN
2245-2-2000.DGN
2245-2-2000.DGN
2245-2-2000.DGN
2245-2-2000.DGN
2245-2-2000.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/20
SHEET 23 OF 37

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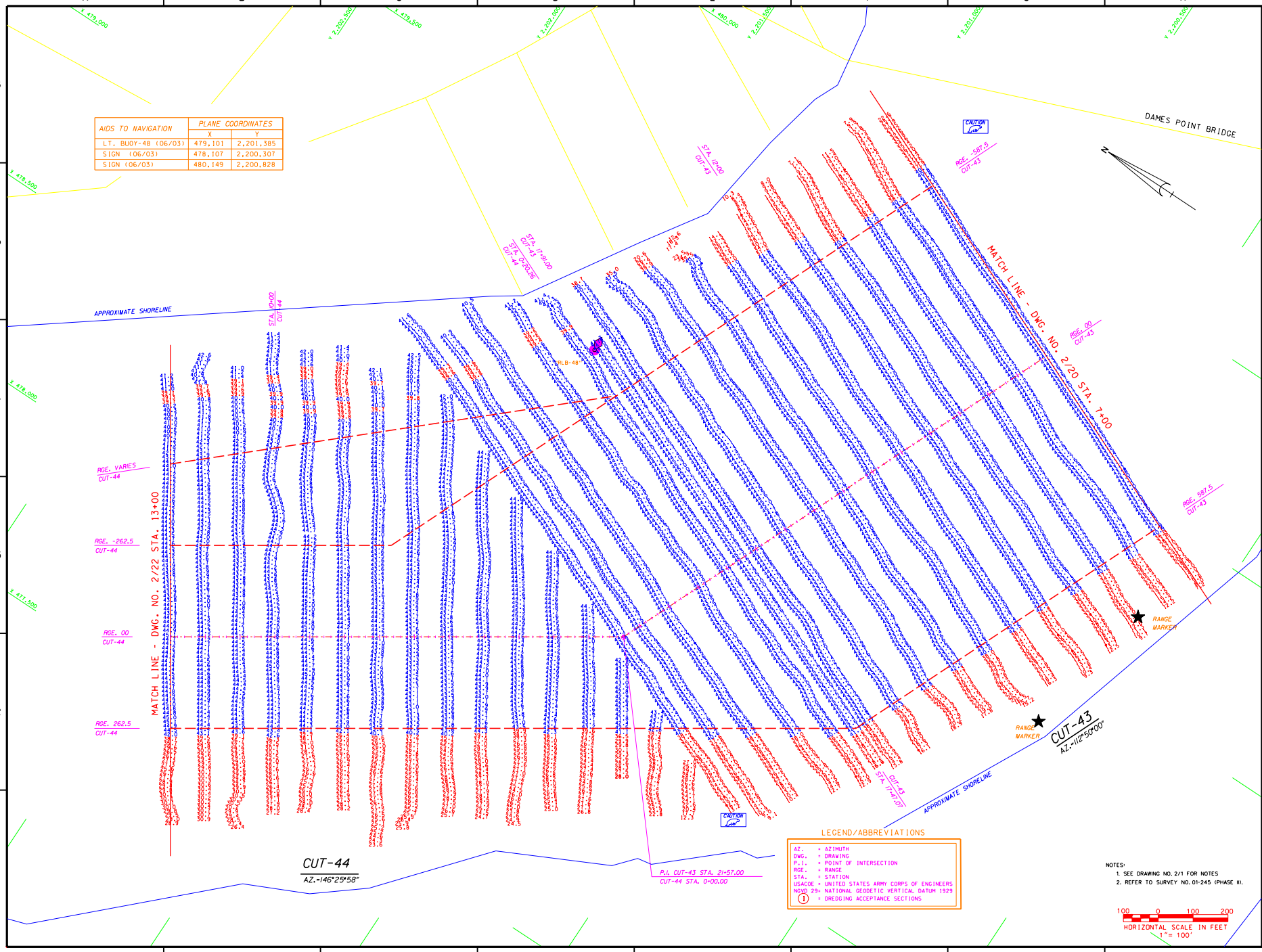

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y
LT. BUOY-48 (06/03)	479,101	2,201,385
SIGN (06/03)	478,107	2,200,307
SIGN (06/03)	480,149	2,200,828

LEGEND/ABBREVIATIONS

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5920 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311
FAX: (904) 384-8312
E-MAIL: ARCSURVEY@AOL.COM
LICENSED BUSINESS No. 4487

Inv. No. DACW17-01-D-0002
Dates: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 10, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: SET
Chkd by: PRS

Dated: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

File name: C245A-2 24B.DGN
Reference files:
C245A_MAIN_ALIGN
C245A_MAIN_CUT50
C245A_MAIN_CUT3
C245A_MAIN_CUT3A
C245A_MAIN_CUT3A_
C245A_MAIN_CUT3A_
C245A_MAIN_CUT3A_
C245A_MAIN_CUT3A_
C245A_MAIN_CUT3A_
C245A_MAIN_CUT3A_

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/21
SHEET 24 OF 37

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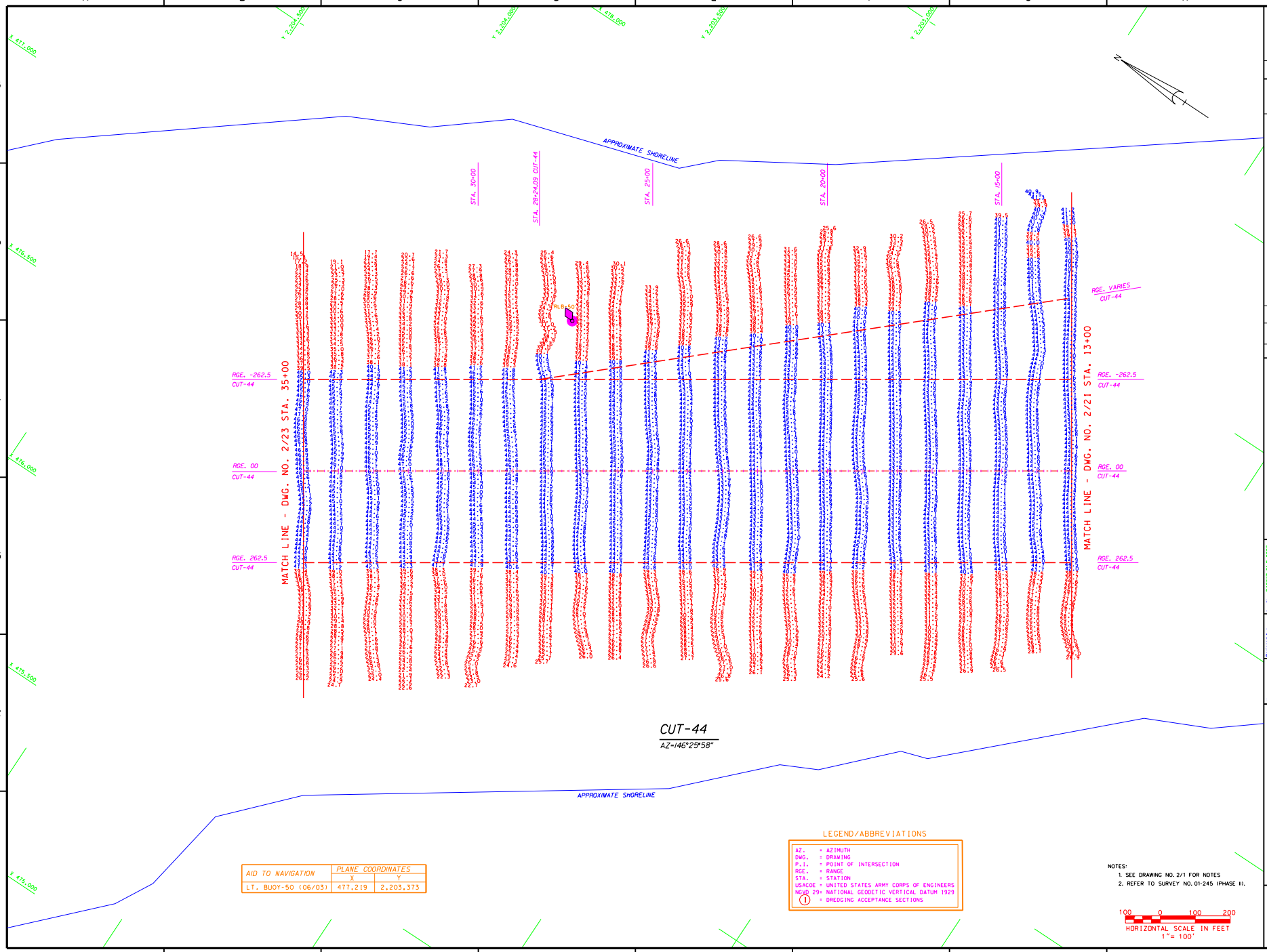

AID TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-50 (06/03)	477,219	2,203,373

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
5920 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS NO. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: CLT
Ckd by: PRS

Dated: SEPTEMBER 2003
D.O.F.ILE NO. 1-38,417

File name: C245A-2-2SKL01A
Reference files:
C245A_NOR_ALIGN
C245A_NOR_CUT
C245A_NOR_PLOT
C245A_NOR_SURVEY
DSC_0001.JPG
DSC_0002.JPG
DSC_0003.JPG
DSC_0004.JPG
DSC_0005.JPG
DSC_0006.JPG

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/22
SHEET 25 OF 37

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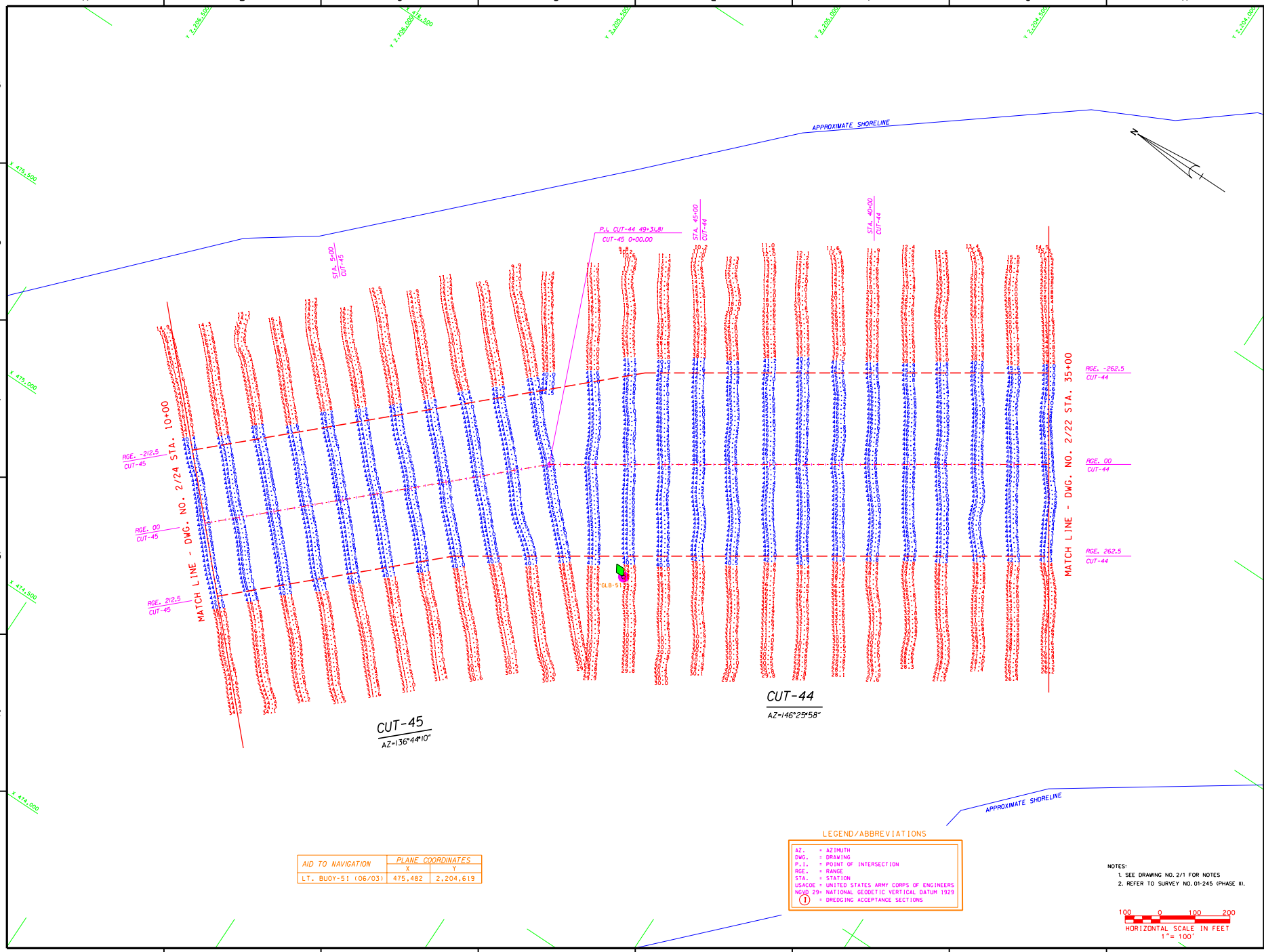

AID TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-51 (06/03)	475,482	2,204,619

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

HORIZONTAL SCALE IN FEET
1"= 100'
100 0 100 200

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ABC SURVEYING & MAPPING INC.
5920 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311
FAX: (904) 387-6106
E-MAIL: ABCSURVEY@AOL.COM
LICENSED BUSINESS NO. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: CLT
Ckd by: PRS

Dated: SEPTEMBER 2003
D.O. FILE NO. 1-38,417

File name: C245A-2-23.DGN
Reference files:
C245A_MOB_AD.DGN
C245A_MOB_TOPO.DGN
C245A_MOB_PN.DGN
C245A-1-01245.DGN
C245A-1-01245BM.DGN
C245A-1-01245BM1.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/23
SHEET 26 OF 37

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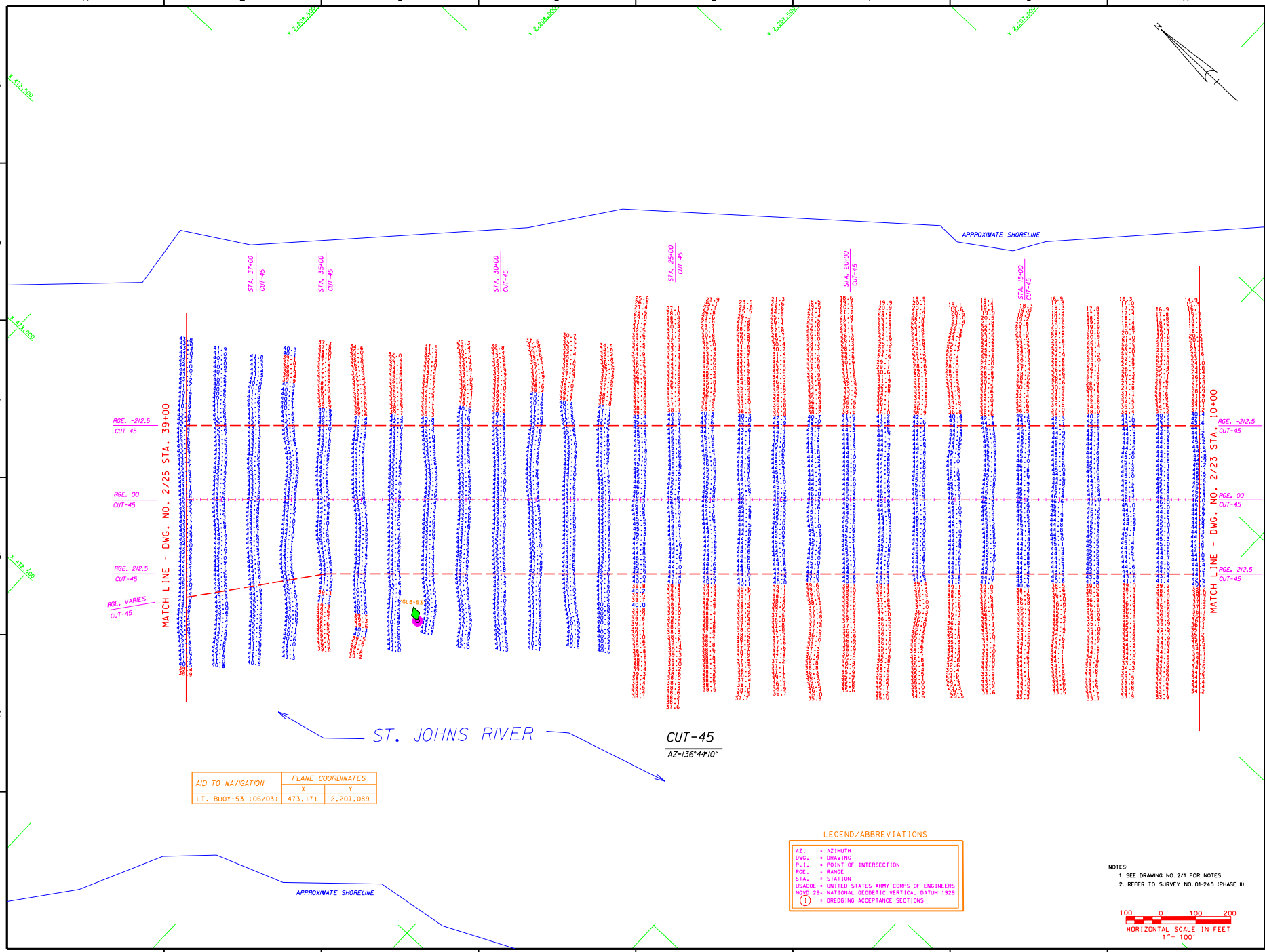

AID TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-53 (06/03)	473,171	2,207,089

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
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STA. = STATION
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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
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2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ABC SURVEYING & MAPPING INC.
5920 SAN JUAN AVENUE, 32244
JACKSONVILLE, FLORIDA
PHONE: (904) 384-8311
FAX: (904) 387-6388
E-MAIL: ABCSURVEY@AOL.COM
LICENSED BUSINESS NO. 4487

Inv. No. DACW17-01-D-0002
Dates: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Designed by:
Dwn by: CET
Ckd by: PRS
Dates: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

File name: 245A-2-24-01.DGN
Reference files:
245-A_MOB_AD.DGN
245-A_MOB_BASE.DGN
245-A_CL-N.DGN
245-A_CL-S.DGN
245-A_CL-MOD.DGN
245-A_CL-MOD-S.DGN
245-A_BREAKLINE.DGN
245-A_BREAKLINE-S.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/24
SHEET 27 OF 37

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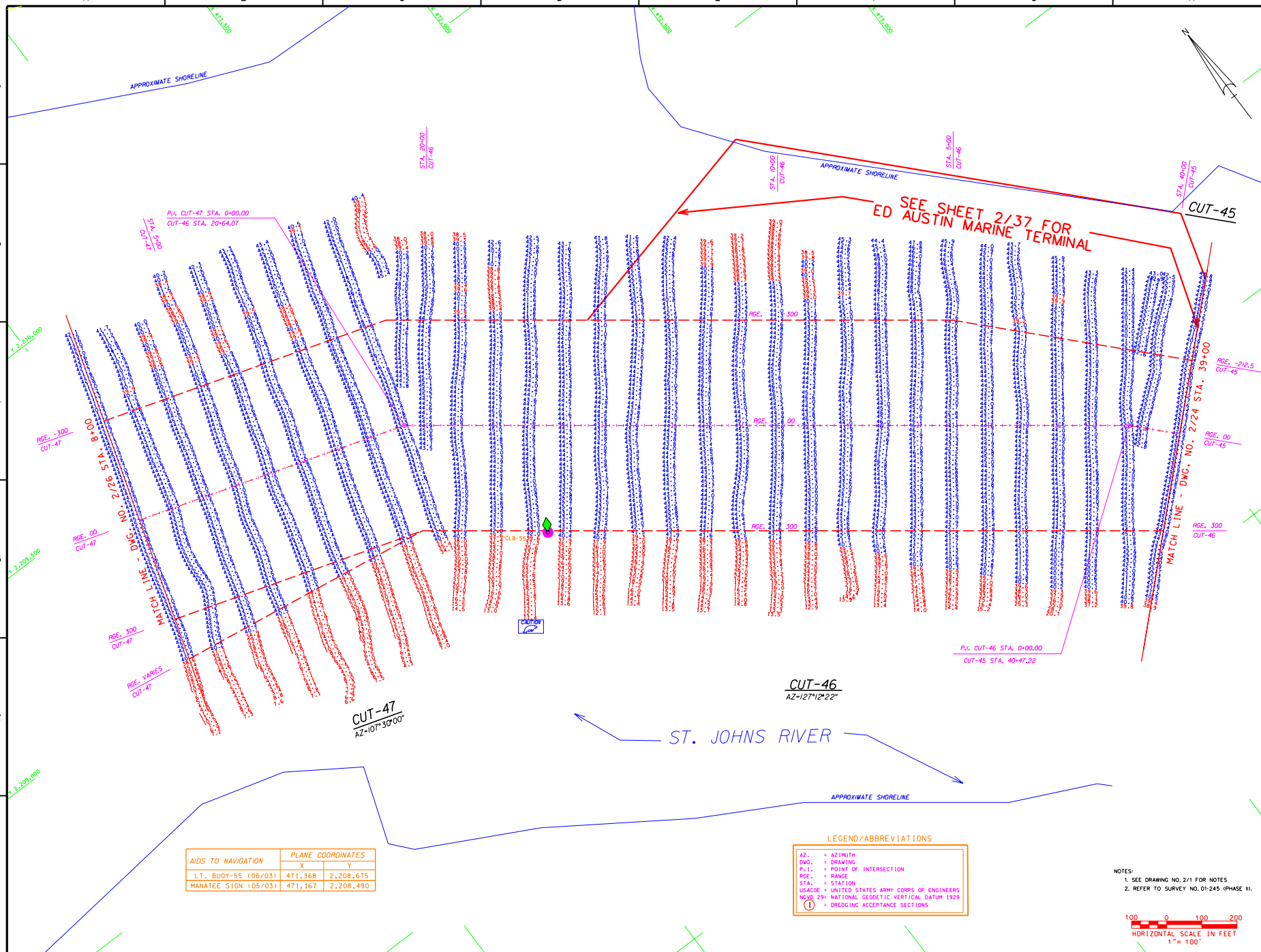

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-55 (06/03)	471,368	2,208,675
MANATEE SIGN (05/03)	471,167	2,208,490

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(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5232 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: (904) 384-8311
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS No. 4487

Inv. No. DACW17-01-C-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: SET
Ckd by: PRS

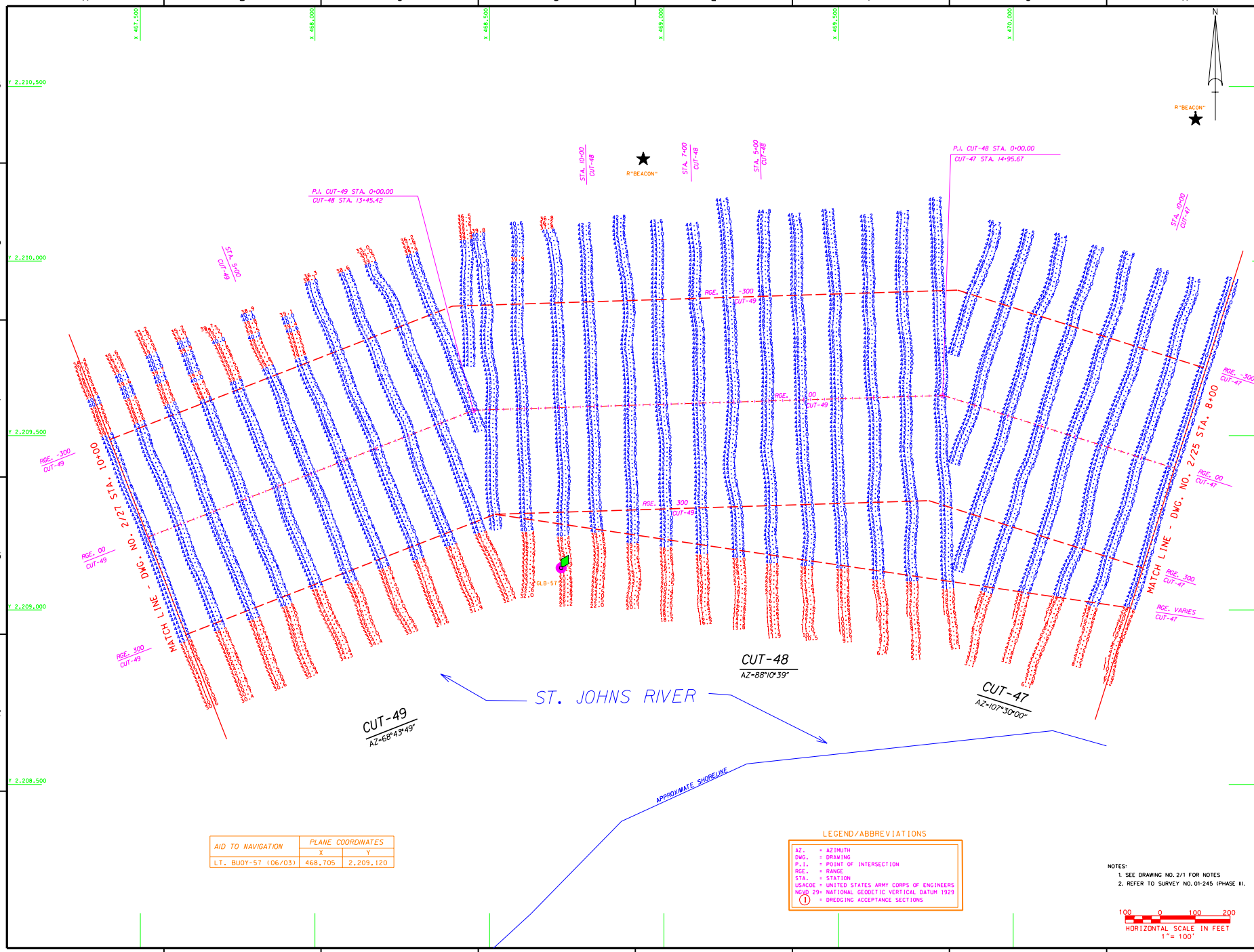
Dated: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

File name: C245-2-2-SH-0.DGN
Reference files:
C245-A_NOR_AL.DGN
C245-A_NOR_PL.DGN
C245-A_NOR_PR.DGN
C245-A_NOR_SH.DGN
SHA-CUT-47.DGN
SHA-CUT-46.DGN
SHA-CUT-45.DGN
SHA-CUT-50.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/25

SHEET 28 OF 37



AID TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-57 (06/03)	468,705	2,209,120

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
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NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5920 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311
FAX: (904) 387-1036
LICENSED BUSINESS No. 4487

Designed by:
Drawn by: CET
Checked by: PRS
Rev. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 10, 2003
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

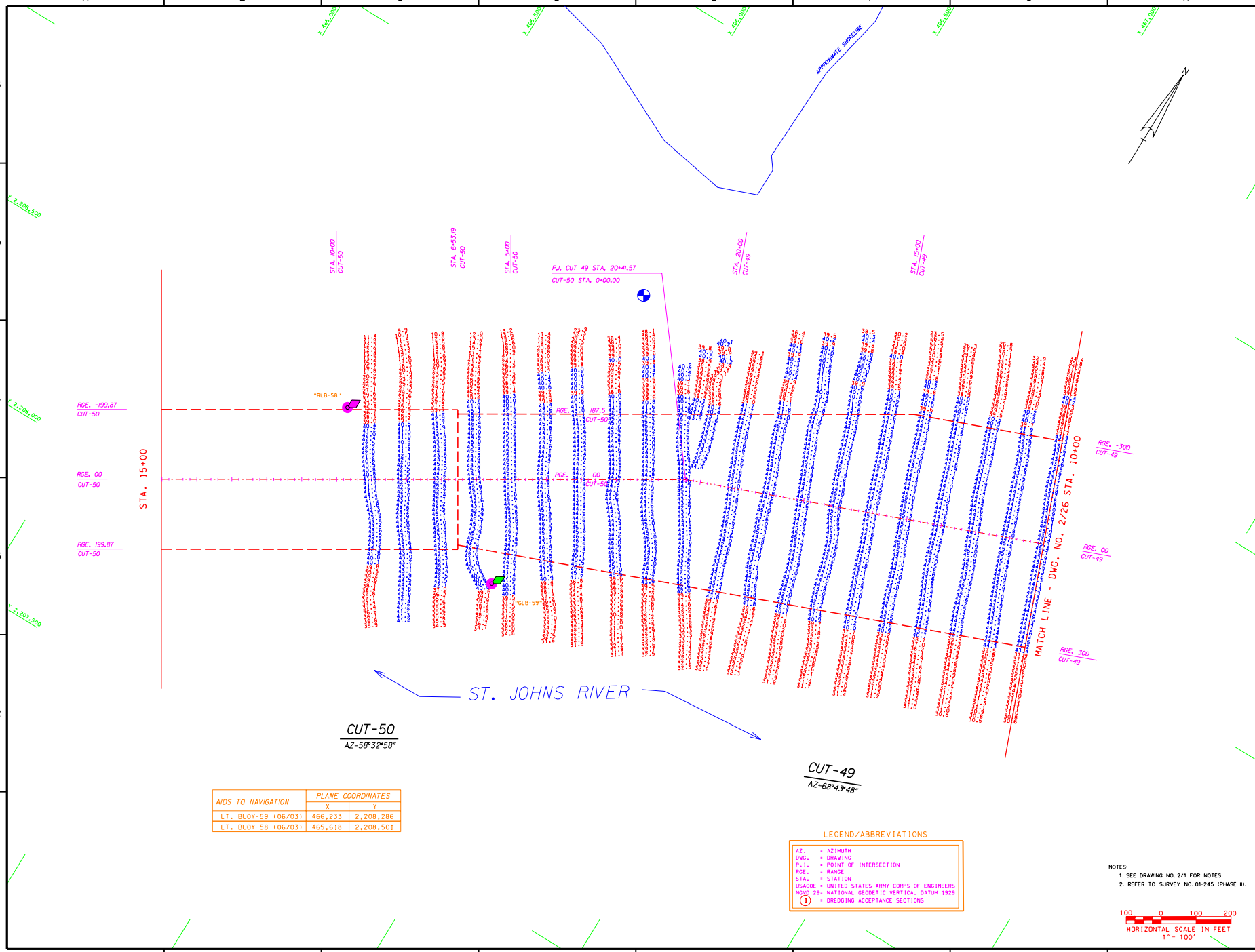
File name: C245-C-2.DWG.DGN
Reference files:
C245-A_NOR_ALIGN
C245-A_NOR_CUT-01
C245-A_NOR_CUT-02
C245-A_NOR_CUT-03
C245-A_NOR_CUT-04
C245-C-1.DWG.DGN
C245-C-1.DWG.DGN
C245-C-2.DWG.DGN
C245-C-2.DWG.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/26

SHEET 29 OF 37

...\Survey drawings\c245a-sh29.dgn 04/22/2004 12:58:00 PM



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-59 (06/03)	466,233	2,208,286
LT. BUOY-58 (06/03)	465,618	2,208,501

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5202 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: (904) 384-8311
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS NO. 6487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 10, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: GET
Ckd by: PRS

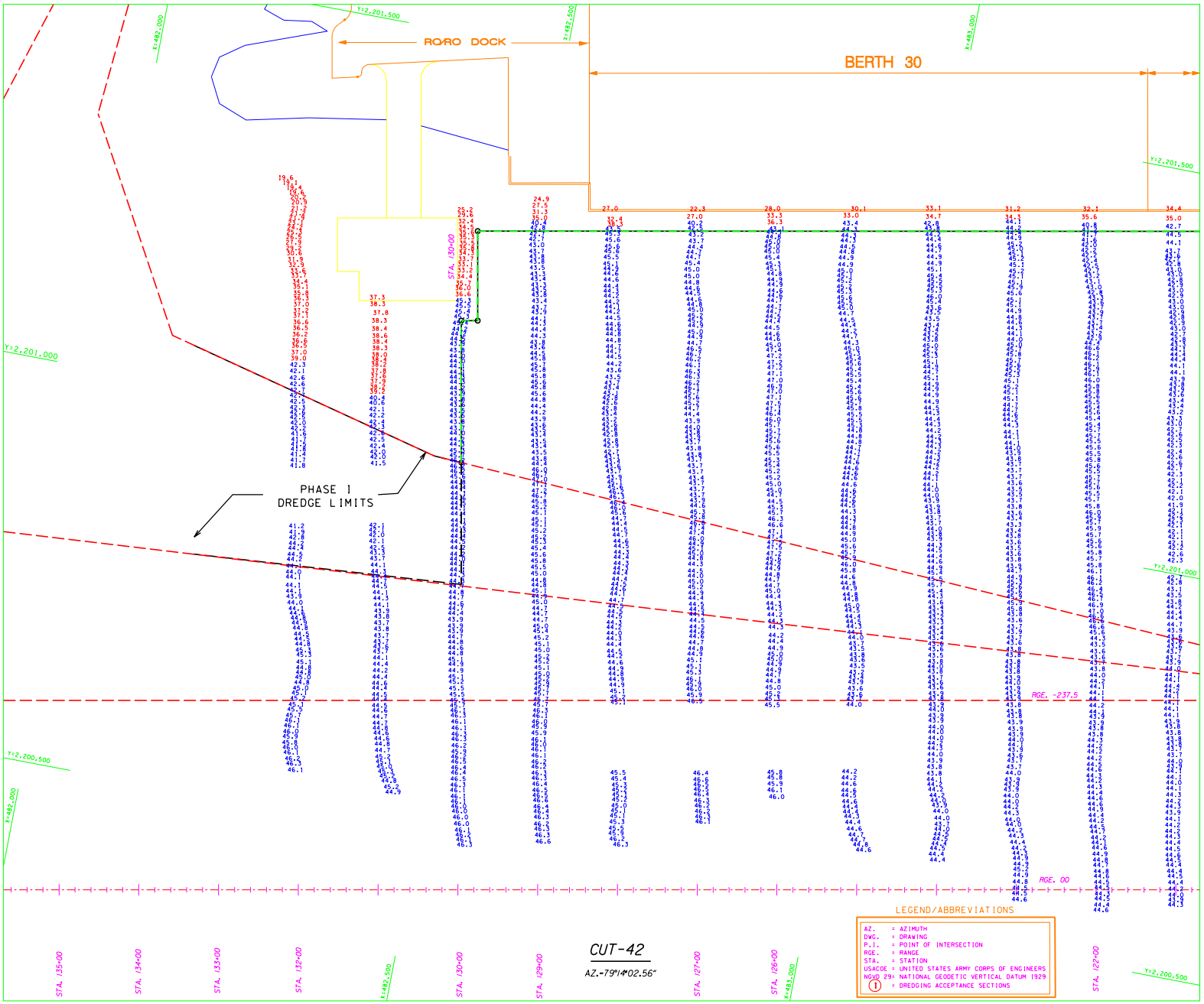
Dated: SEPTEMBER 2003
D.O.F.ILE NO. 1-38,417

File name: C245A-2-27-ALL.DGN
Reference files: C245-PL-NOR-ALL.DGN C245-PL-NOR-DGN C245-PL-PR-DGN C245-PL-PR-DGN C245-CONS-BLK.DGN C245-CONS-BLK.DGN C245-CONS-BLK.DGN C245-CONS-BLK.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/27
SHEET 30 OF 37

...\Survey drawings\c245a-sh30.dgn 04/22/2004 01:10:10 PM



BERTH AREA COORDINATES		
PT.	X	Y
A	482,435.27	2,201,259.23
B	482,456.12	2,201,149.05
C	482,435.93	2,201,145.21
D	482,469.21	2,200,970.10
E	483,712.17	2,200,902.84
F	486,933.73	2,201,515.40
G	487,724.74	2,202,197.46
H	487,712.41	2,202,262.32

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

50 0 50 100
HORIZONTAL SCALE IN FEET
1"= 50'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
5200 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904-384-8377
FAX: 904-384-8378
(LICENSED BUSINESS NO. 6487)

Inv. No. DACW17-01-D-0002
Scale: FEBRUARY 22, 2002
Designed by: Scale: AS SHOWN
Drawn by: DET Chkd by: RBG
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Date: SEPTEMBER 2003
D.O.FILE NO. 1-38.417

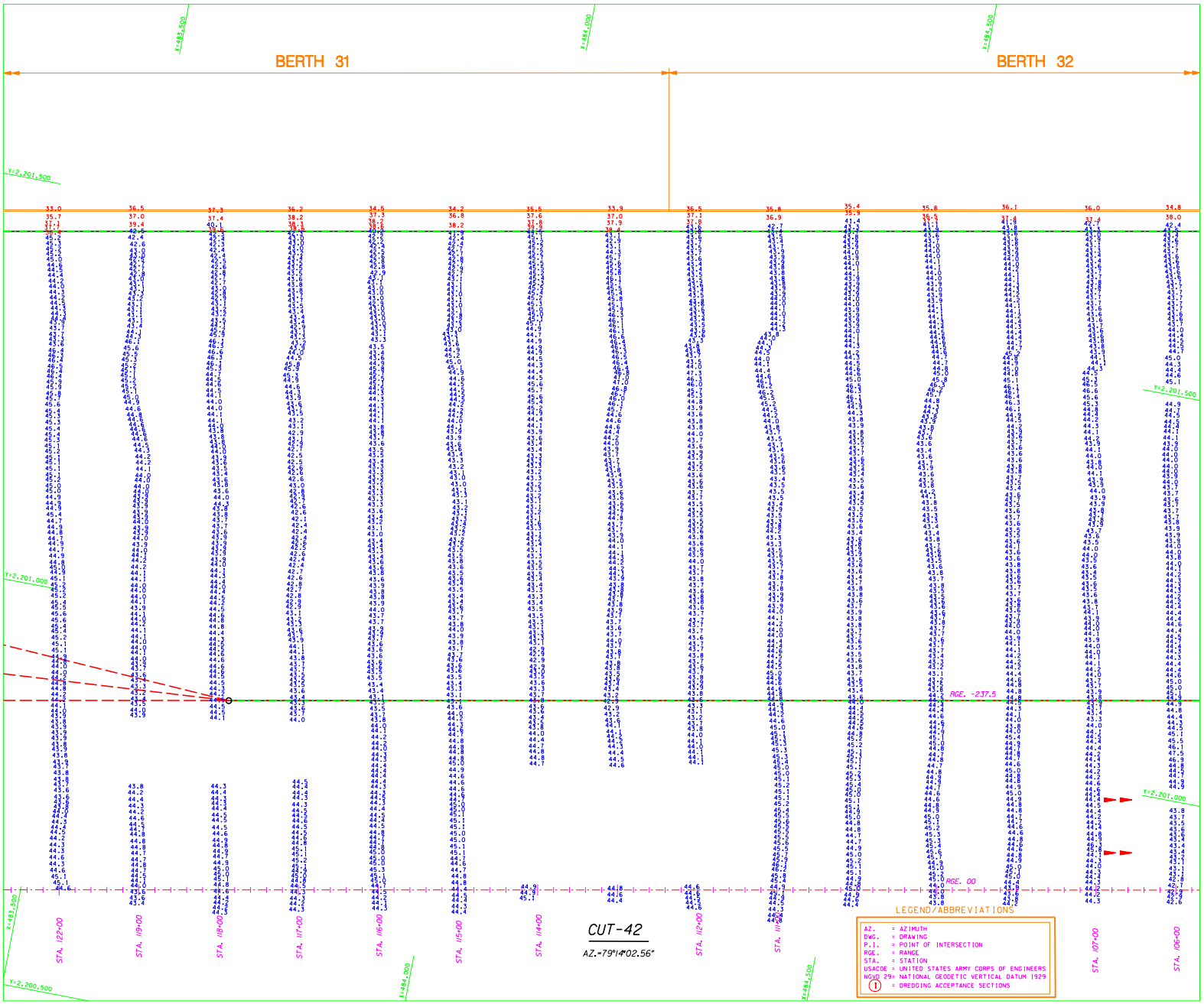
File name: C245A-SH31.DGN
Reference files: C245A-CHART.DGN C245A-PLAN.DGN C245A-BERTH.DGN C245A-JACKSONVILLE

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/32

SHEET 31 OF 37

...\Survey drawings\c245a-sh31.dgn 04/22/2004 01:11:24 PM



BERTH AREA COORDINATES		
PT.	X	Y
A	482,435.27	2,201,259.23
B	482,456.12	2,201,149.05
C	482,435.93	2,201,145.21
D	482,469.21	2,200,970.10
E	483,712.17	2,200,902.84
F	486,933.73	2,201,515.40
G	487,724.74	2,202,197.46
H	487,712.41	2,202,262.32

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

50 0 50 100
HORIZONTAL SCALE IN FEET
1"= 50'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
5205 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904-384-8377
FAX: 904-384-8378
(LICENSED BUSINESS NO. 6481)

Inv. No. DACW17-02-C-0002
Scale: FEBRUARY 22, 2002
Plot scale: AS SHOWN
Plot date: SEPTEMBER 10, 2003
Designed by
Dwn by DET
Ckd by RBG
Dated: SEPTEMBER 2003
D.O.FILE NO. 1-38,417

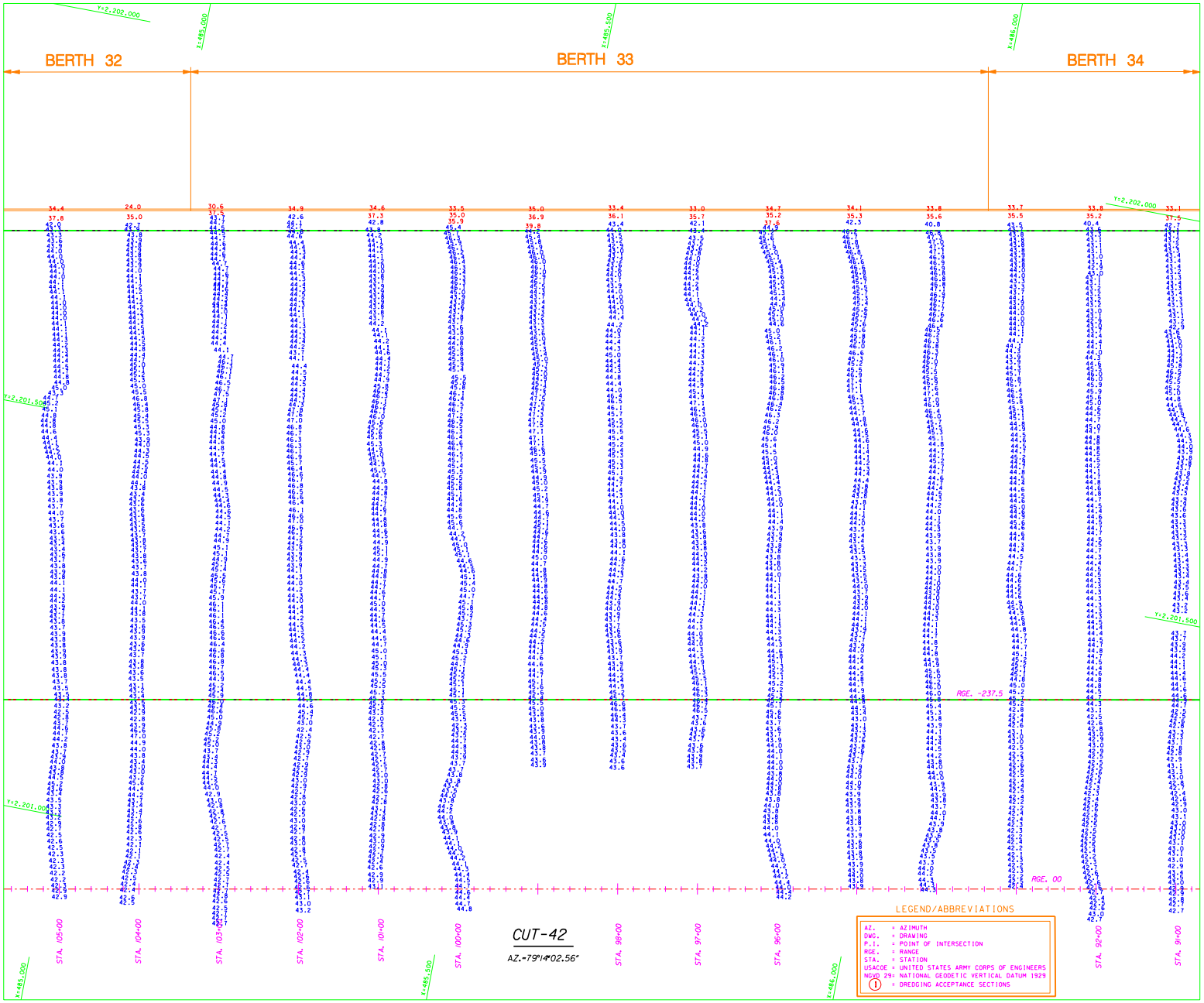
File name: 2246-245-3340.DGN
Reference files: C:\JAXHOME\DGN\2246-245-3340.DGN C:\JAXHOME\DGN\2246-245-3340.DGN C:\JAXHOME\DGN\2246-245-3340.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/33

SHEET 32 OF 37

...\Survey drawings\c245a-sh32.dgn 04/22/2004 01:12:12 PM



BERTH AREA COORDINATES		
PT.	X	Y
A	482,435.27	2,201,259.23
B	482,456.12	2,201,149.05
C	482,435.93	2,201,145.21
D	482,469.21	2,200,970.10
E	483,712.17	2,200,902.84
F	486,933.73	2,201,515.40
G	487,724.74	2,202,197.46
H	487,712.41	2,202,262.32

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

HORIZONTAL SCALE IN FEET
1"= 50'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5232 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: (904) 384-8311
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS No. 4487

Rev. No. DACW17-01-D-0002
Dates: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Dates: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

Designed by:
Dwn by: CLT
Ckd by: PRS

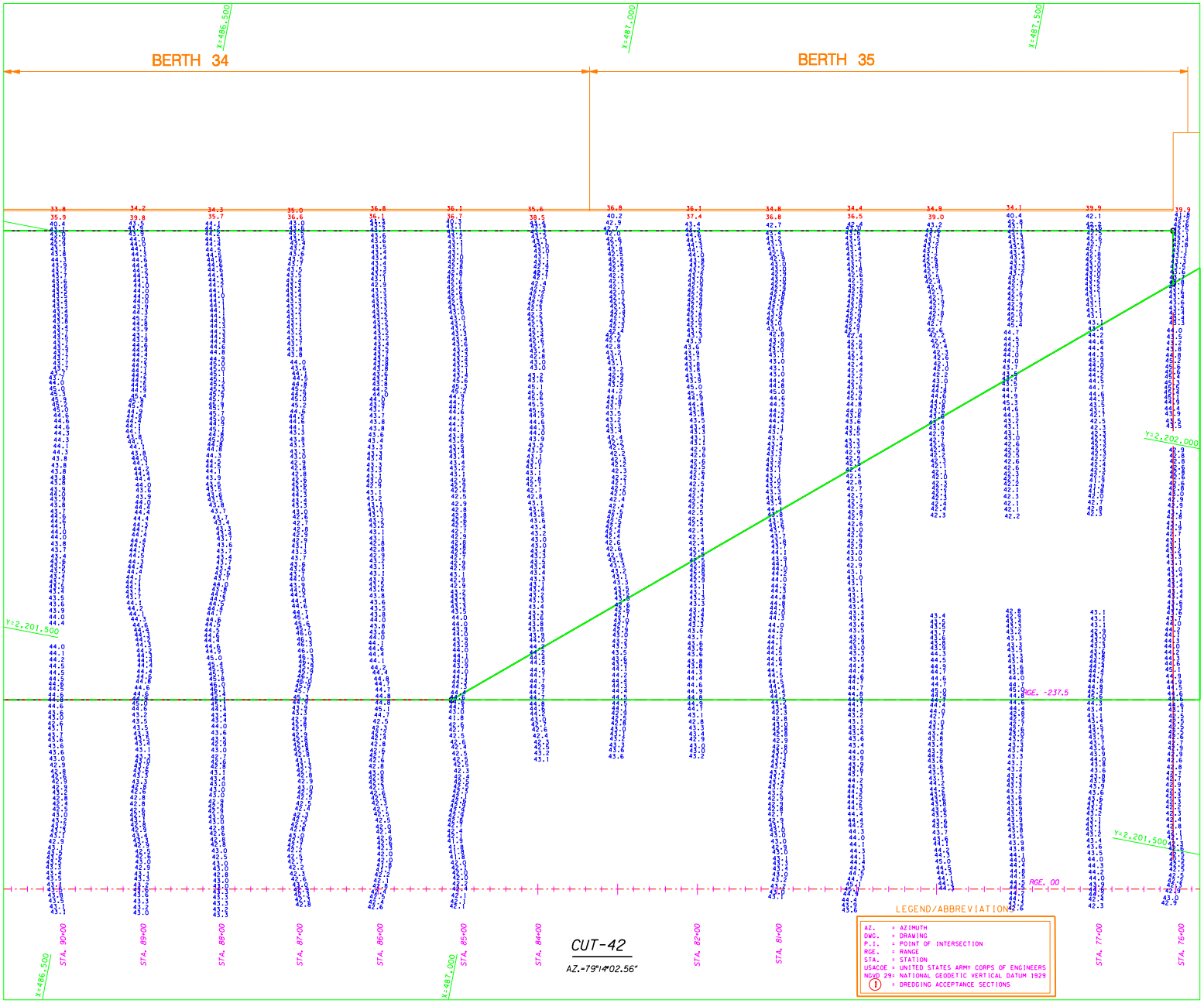
File name: C245-2-SH33.DGN
Reference files: C245-L-NOR-JAX.DGN, C245-L-PRJ-JAX.DGN, C245-L-PRJ-TEST.DGN, C245-L-PRJ-TEST2.DGN, C245-ACCEPANCE.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/34

SHEET 33 OF 37

...\Survey drawings\c245a-sh33.dgn 04/22/2004 01:12:52 PM



BERTH AREA COORDINATES		
PT.	X	Y
A	482,435.27	2,201,259.23
B	482,456.12	2,201,149.05
C	482,435.93	2,201,145.21
D	482,469.21	2,200,970.10
E	483,712.17	2,200,902.84
F	486,933.73	2,201,515.40
G	487,724.74	2,202,197.46
H	487,712.41	2,202,262.32

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

N

50 0 50 100
HORIZONTAL SCALE IN FEET
1"= 50'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5232 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: (904) 384-8311
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS NO. 4487

Rev. No. DACW17-01-D-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 10, 2003
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O.F FILE NO. 1-38,417

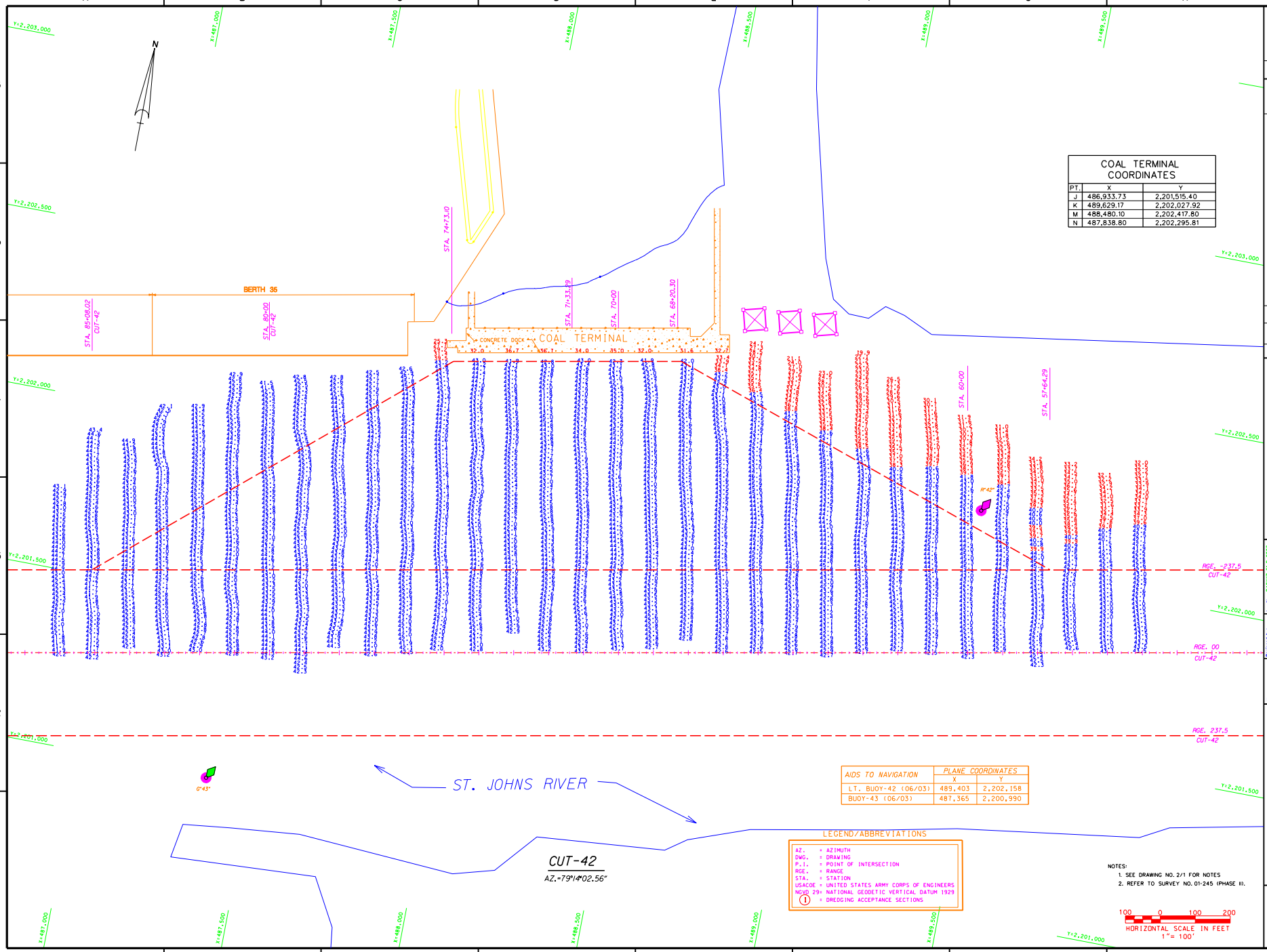
Designed by:
Dwn by: CET
Ckd by: PRS

File name: C245A-2-3-SH.DGN
Reference files: C245A-1NOL-JAX.DGN C245A-2-1-SH.DGN C245A-2-2-SH.DGN C245A-2-4-SH.DGN C245A-REDRAWING.DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/35

SHEET 34 OF 37



COAL TERMINAL COORDINATES

PT.	X	Y
J	486,933.73	2,201,515.40
K	489,629.17	2,202,027.92
M	488,480.10	2,202,417.80
N	487,838.80	2,202,295.81

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y
LT. BUOY-42 (06/03)	489,403	2,202,158
BUOY-43 (06/03)	487,365	2,200,990

LEGEND/ABBREVIATIONS

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P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

HORIZONTAL SCALE IN FEET
1"= 100'
100 0 100 200

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5920 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311
EMAIL: ARC@ARCSURVEY.COM
LICENSED BUSINESS No. 6487

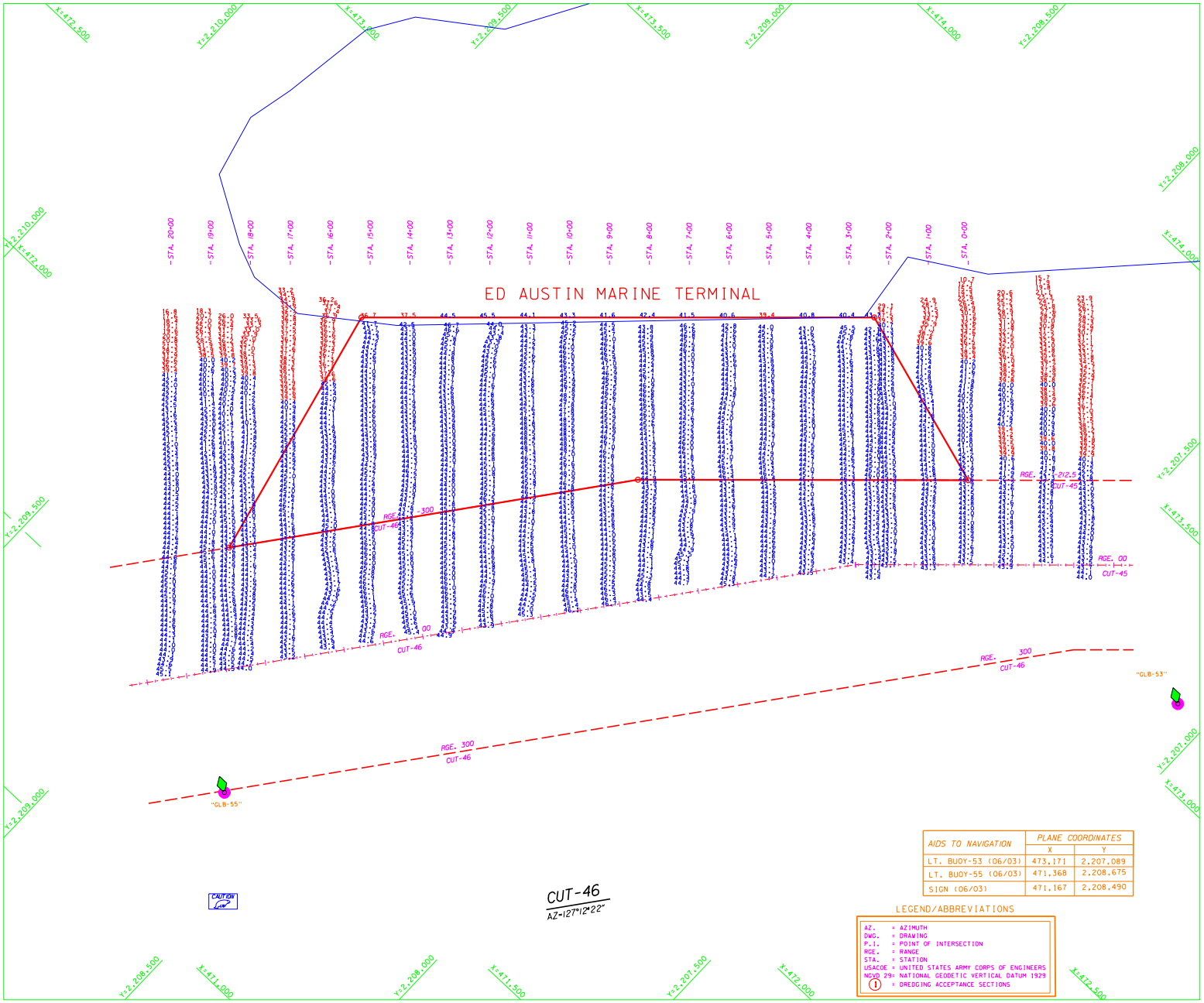
Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Designed by:
Dwn by: GET
Ckd by: PRS
Dated: SEPTEMBER 2003
D.O.F FILE NO. 1-38,417

File name: C245A-2-3MB.DGN
Reference files: C245A,MON,JAX,DGN C245A,CL,JAX,DGN C245A,PL,JAX,DGN C245A,BASE,JAX,DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
DREDGING PLAN VIEW (OPTION ITEM A)

DRAWING NO.
2/36
SHEET 35 OF 37

...\Survey drawings\c245a-sh35.dgn 04/22/2004 01:14:23 PM



ED AUSTIN MARINE TERMINAL COORDINATES - NAD 83		
PT.	X	Y
1	471,823.05	2,209,088.74
2	472,470.83	2,209,243.72
3	473,353.60	2,208,308.69
4	473,218.54	2,207,857.01
5	472,650.59	2,208,460.46

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT. BUOY-53 (06/03)	473,171	2,207,089
LT. BUOY-55 (06/03)	471,368	2,208,675
SIGN (06/03)	471,167	2,208,490

LEGEND/ABBREVIATIONS

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NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING INC.
5920 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311
EMAIL: ARCSURVEY@AOL.COM
LICENSED BUSINESS No. 4487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 22, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 10, 2003
Plot scale: AS SHOWN

Designed by:
Dwn by: GET
Ckd by: PRS

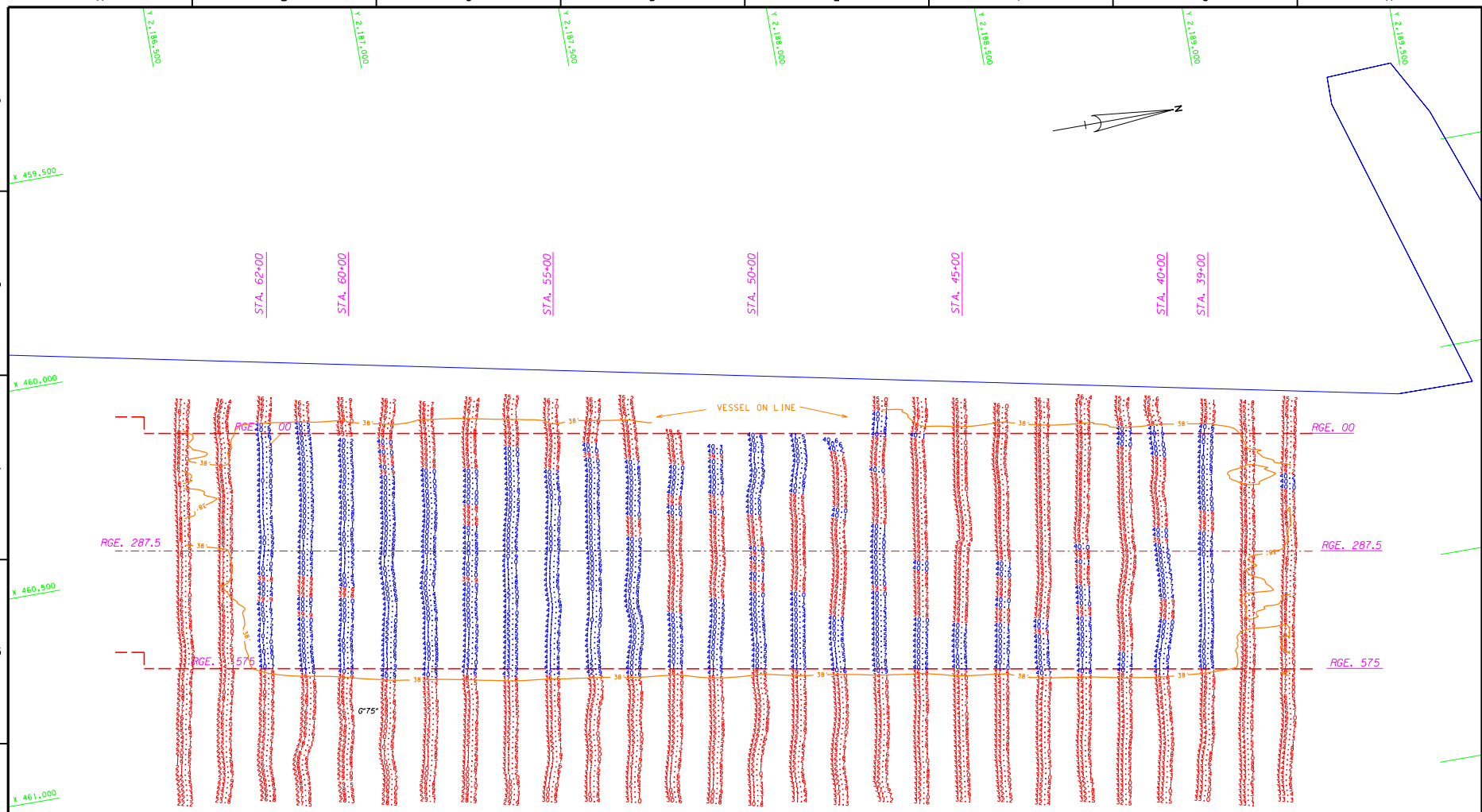
Dated: SEPTEMBER 2003
D.O.F.ILE NO. 1-38,417

File name:
Reference files:
C245A_NOR_AERIAL
C245A_NOR_BLOCK
C245A_NOR_PLOT
C245A_NOR_ROCK
C245A_NOR_ZONE

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
40-FOOT PROJECT
CUT-3 THROUGH CUT-50
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/37

SHEET 36 OF 37



TERMINAL CHANNEL

AZ-10-00-41

AID TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-75 (03/03)	460,890	2,186,657	30°20'49.19"	81°37'08.66"

BENCHMARK	NGVD ELEV. (FT)
STJO-204	4.51

NGVD 1929
0.40 feet
M.L.W.

Relationship between NGVD 1929 and Mean Low Water

LEGEND/ABBREVIATIONS

AZ. = AZIMUTH
DWG. = DRAWING
P.I. = POINT OF INTERSECTION
RGE. = RANGE
STA. = STATION
USACOE = UNITED STATES ARMY CORPS OF ENGINEERS
NGVD 29= NATIONAL GEODETIC VERTICAL DATUM 1929
(1) = DREDGING ACCEPTANCE SECTIONS

NOTES:
1. SEE DRAWING NO. 2/1 FOR NOTES
2. REFER TO SURVEY NO. 01-245 (PHASE II).

100 0 100 200
HORIZONTAL SCALE IN FEET
1"= 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ABC SURVEYING & MAPPING INC.
5520 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32244
PHONE: (904) 384-8311
EMAIL: ABCSURVEYOR.COM
LICENSED BUSINESS No. 6487

Inv. No. DACW17-01-D-0002
Dated: FEBRUARY 23, 2001
Scale: AS SHOWN
Plot date: SEPTEMBER 12, 2003
Plot scale: AS SHOWN
Dated: SEPTEMBER 2003
D.O.F. FILE NO. 1-38,417

Designed by:
Dwn by: CET
Ckd by: PRS

File name: C245-2-38A.DGN
Reference files: C245-A_NOR_AERIAL.DGN, C245-A_NOR.DGN, C245-A_PN_DGN, C245-A_PN_DGN, C245-A_PN_DGN

JACKSONVILLE HARBOR, FLORIDA
CONSTRUCTION DREDGING PHASE II
38-FOOT PROJECT
MODIFICATION TO CONTRACT #P00011
AFTER - DREDGE SURVEY
(CONTRACT DACW17-02-C-0013)
PLAN VIEW

DRAWING NO.
2/39
SHEET 37 OF 37

...\Survey drawings\c245a-sh37.dgn 04/22/2004 01:44:39 PM